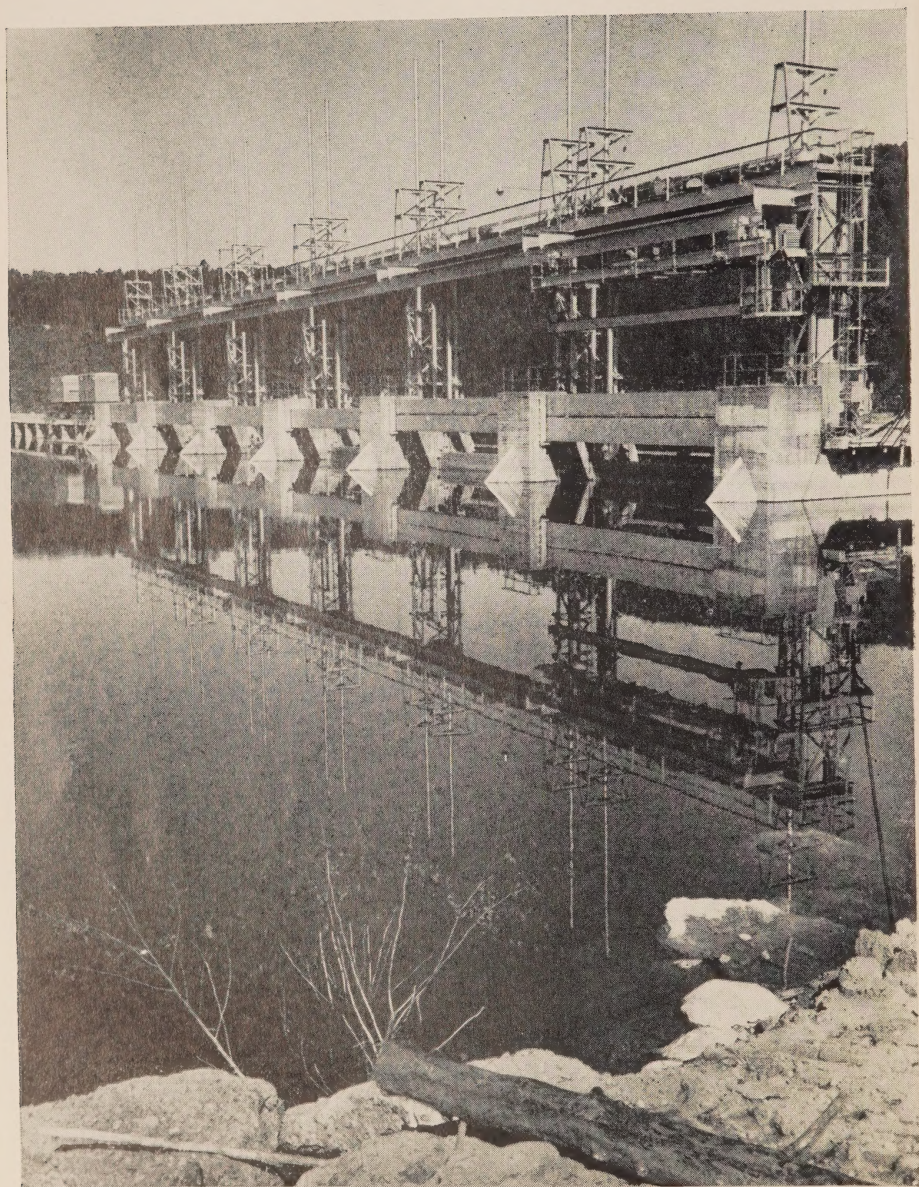


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McCONNELL LAKE CONTROL DAM GATES—DES JOACHIMS DEVELOPMENT

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Ontario, Hydro-Electric Power
Commission

(FORTY-THIRD) ANNUAL REPORT

OF

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

FOR THE YEAR ENDED DECEMBER 31st

43d - 44th

1950-1951

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THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

1950

ROBERT H. SAUNDERS, C.B.E., K.C.....*Chairman*
HON. GEORGE H. CHALLIES, PHM.B., M.L.A.....*1st Vice-Chairman*
W. ROSS STRIKE, K.C.....*2nd Vice-Chairman*


R. L. HEARN
*General Manager
and Chief Engineer*

E. B. EASSON
Secretary



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620 UNIVERSITY AVENUE - TORONTO, ONTARIO
CANADA

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LETTER OF TRANSMITTAL

TORONTO, ONTARIO, MARCH 31, 1951

THE HONOURABLE RAY LAWSON, O.B.E., LL.D.,

Lieutenant-Governor of Ontario.

MAY IT PLEASE YOUR HONOUR:

It is my privilege, as Chairman, to present the Forty-third Annual Report of The Hydro-Electric Power Commission of Ontario for the fiscal year ended December 31, 1950. It will be noted that the Commission's fiscal year has been changed to correspond with the calendar year.

We at Ontario Hydro are deeply conscious of our tremendous responsibility in relation to the welfare, happiness, and progress of the people of this Province.

The service rendered by Hydro in providing low-cost power in abundance for the use of our citizens and their children is one that is woven in a most vital and intimate way into our whole pattern of life and living.

Speaking not only for myself but for my very able colleagues on the Commission and the highly efficient management and employees of this great co-operative enterprise, I can say that there is cause for sincere gratification over the way Hydro has been meeting the many problems of these challenging times.

The remarkable achievements which have been chronicled in the history of Hydro since its inception only forty-five years ago were completely eclipsed by the unparalleled accomplishments of the year 1950.

It is indeed a high privilege for me, as Chairman, to direct attention to that record of progress as unfolded in the pages of this Annual Report.

During 1950, Hydro was called upon to face a sudden upsurge in the steadily mounting demands for power as a result of the war in Korea—a challenge which was met successfully.

It was also a year of outstanding achievement in the matter of adding new resources. The fact that four new hydro-electric stations and five emergency thermal stations were brought into service reflects the highest

possible credit upon all concerned. It is a tribute not only to the marked efficiency of our engineers and staff but to the tremendous contribution made by the men in the front line of construction—the forces of labour.

Through their combined, all-out efforts, Hydro was able to make available to the people of Ontario an additional installed capacity of 465,350 kilowatts during that period.

That additional capacity is made up as follows:

In Southern Ontario

Des Joachims (7 of 8 units in service)	315,000 kilowatts
ChenauX (2 of 8 units in service)	30,000 kilowatts
Five thermal installations	20,350 kilowatts

In Northeastern Ontario

George W. Rayner Generating Station (both units in operation)	42,000 kilowatts
----------------------------------------------------------------------------	------------------

In Thunder Bay

Pine Portage (both units in operation)	60,000 kilowatts
--------------------------------------------------	------------------

In considering the tremendous progress made by the Commission in expanding its resources, it is well to bear in mind what has been accomplished since 1945 when Hydro launched its record-breaking program. It was estimated that between 1945 and 1954 that program would involve an expenditure of approximately \$854,823,460. Up to the end of 1950, the sum of \$486,437,000 had been expended, bearing significant testimony to the magnitude of Hydro's accomplishment in a matter of five years.

During that period as many as 442 different projects were under construction at one time, employing per project from 10 men up to 3,100 at Des Joachims and costing from a few thousand dollars up to an approved on-the-site expenditure of \$75,775,000 for Des Joachims.

In addition to the remarkable record of progress represented by the new generating stations brought into service, Hydro's construction forces reached across the flourishing Ontario countryside to build the facilities required to bring the power to the people. In this important phase of the Commission's program, some 1,918 circuit miles of high- and low-voltage lines were erected, bringing the total up to 13,133 circuit miles in service by the end of 1950.

Construction of eight new transformer stations with a total capacity of 259,800 kilovolt-amperes was completed in 1950, while additions were made to seven existing stations with a capacity of 512,000 kilovolt-amperes.

Rural

While recognizing the necessity for providing a fully adequate supply of low-cost power to homes, factories, and other customers in the cities and towns, the Commission has been ever mindful of the vital role of agriculture in the over-all economy of Ontario. In this connection, Hydro has sought

to reach out into rural communities so that an ever increasing number of people may enjoy all the benefits and conveniences of low-cost power in their homes and on their farms.

The Commission's continuing policy of pressing on with rural electrification is again reflected in the record of progress during 1950.

In that period Hydro increased the number of miles of rural lines from 32,059 to 34,793 and the number of rural customers from 255,295 to 292,811. It is a matter of interest to note that between the beginning of 1945—when there were 144,218 rural customers—and the end of 1950, the number has more than doubled.

In 1950 the maximum aggregate rural load reached 234,752 kilowatts, whereas in 1945 it was 98,883 kilowatts, an increase in five years of 137.4 per cent. The average farm consumption in 1950 was 266 kilowatt-hours compared with 183 kilowatt-hours in 1945, an increase of 45.36 per cent.

Looking at the Ontario rural picture as a whole, we find that, based on the 1941 Dominion census, approximately 47 per cent of the farms in this Province were enjoying the benefits of electricity in 1947. This increased to 52 per cent in 1948, and 60 per cent in 1949. By 1950, electrical service had reached 67 per cent of the farms in this Province.

It is a source of great satisfaction to the Commission to be able to report that not only are the benefits of electricity being steadily extended to the rural areas, but also we are giving the farm and hamlet customers power at less cost than they paid prior to the last war. We were able to supply energy to the farmers of this Province at an average cost of 1.847 cents per kilowatt-hour in 1950 as compared with 2.11 cents in 1944, a decrease of 12.46 per cent. Bearing in mind that the average cost per kilowatt-hour was 2.55 cents in 1940, there has been a ten-year decrease of 27.57 per cent.

These facts reflect the continuing efforts by the Commission to provide power at low cost.

Urban and Industrial

The extent to which electricity is used in the home, the factory, on the farm, and elsewhere can be taken as a very faithful barometer of the standard of living enjoyed by the people. Facts and figures clearly indicate that the standard of living in Ontario is unsurpassed anywhere in the world.

During 1950, the housewife or domestic customer in Ontario was using, on the average, 304 kilowatt-hours per month as compared with 205 kilowatt-hours in 1945, an increase of 48.29 per cent since the end of the last war.

The average commercial customer in an urban centre consumed an average of 832 kilowatt-hours per month in 1950 compared with 627 kilowatt-hours in 1945, an increase of 32.7 per cent since the end of the war.

With production of essential defence materials and equipment being accelerated, demands for power moved to higher and higher levels. Four steel industries alone increased their demand by 66.7 per cent, three abrasive plants by 77.1 per cent, and four metallurgical and electro-metallurgical plants required 35.4 per cent more power.

Co-operation Acknowledged

The fact that the Commission was able to meet this tremendous challenge, which taxed its facilities to the limit, not only reflects credit upon the efficiency of the staff but accentuates the magnificent co-operation received from many sources.

Federal, Provincial, and municipal authorities as well as the people at large exemplified a fine spirit of team-play that was most helpful.

By way of illustration, the Commission records its deep appreciation of the action of The Hon. Lionel Chevrier and The Right Hon. C. D. Howe in granting permission for the diversion, some two months in advance of the customary date, of an additional 2,500 cubic feet of water per second through the Welland Ship Canal to increase the output of both the DeCew Falls Generating Stations.

Undoubtedly, one of the outstanding events of 1950 was the coming into force on October 10 of the Niagara Diversion Treaty. This action enabled the Commission to proceed with plans for development of additional power at Niagara. The Commission acknowledges with gratitude the efforts of The Right Hon. Louis S. St. Laurent, Prime Minister of Canada; The Hon. Lester B. Pearson, Secretary of State for External Affairs; The Hon. Leslie M. Frost, Premier of Ontario; The Hon. Charles Daley, Minister of Labour for Ontario; Mr. Hume H. Wrong, Canadian Ambassador to the United States of America, and all others concerned in relation to the passing of this vitally important treaty.

Frequency Standardization

Another source of gratification is to be found in the progress made by the Commission during 1950 in carrying out the all-important program of frequency standardization in the 25-cycle areas of southern Ontario. By the end of the year 343,020 frequency-sensitive pieces of electrical equipment owned by 86,000 customers had been changed over for operation on 60-cycle power.

Financial

One of the most significant indications of Hydro's unparalleled record of achievement is to be found in the fact that it has grown from a small group with little or no assets into a billion dollar co-operative enterprise and ranks today as one of the leading public utilities of the world. Hydro, it can be truly said, is the corner-stone of the economy and progress of this great Province.

The assets have more than doubled in the past five years, during the period of most concentrated growth in the Commission's history. Those of Ontario Hydro alone reached a record of \$989,709,166 by the end of 1950. In addition, the 314 cost and 7 fixed-rate municipalities associated with the Commission had assets totalling \$192,976,648, representing a combined total of \$1,182,685,814.

I would like to emphasize, however, that while these assets were being accumulated, more and more electricity was being supplied to the people of Ontario and at decreasing cost.

While your Hydro is expanding at an unprecedented rate today, we are not unmindful of the necessity of safeguarding tomorrow by providing adequate reserves with which to meet future financial demands. The total Commission and municipal reserves for depreciation, contingencies, frequency standardization, stabilization of rates, and sinking fund amounted to \$563,488,688 by the end of the year.

The revenue of the Commission for 1950 surpassed all previous records. The total revenue—from the Southern Ontario System, the Thunder Bay System, and rural power districts—aggregated \$91,685,431 in 1950. Your Hydro is deeply conscious of the absolute necessity for careful and efficient administration of the monies received from the delivery of low-cost power.

Evidence of the sound, non-profit principles upon which Ontario Hydro was founded and is operated is to be found in the fact that despite soaring material and labour costs, we were able to make a very substantial rebate of \$3,364,464 to the municipalities of the Southern Ontario and Thunder Bay Systems. This rebate, made possible by the favourable load growth, was distributed among local commissions and is being utilized for necessary rehabilitation and maintenance work.

The Future

While the Niagara Diversion Treaty made it possible to proceed with work on the new Sir Adam Beck-Niagara Generating Station No. 2 which will be in initial operation by 1954, Hydro must plan five or six years ahead.

All indications point to a continuing upward trend in the demand for power. Therefore, in anticipating the requirements of 1956 and beyond, the Commission hopes for prompt action in implementing the agreement between Canada and the United States for the development of the proposed St. Lawrence Seaway and Power Project. It is the duty of the Commission to be ever vigilant in protecting the interests of the people of this Province by providing a fully adequate supply of low-cost power to meet all needs.

Press and Radio

Helpful co-operation on the part of members of the press and the staffs of radio stations was exceedingly important in keeping the public fully informed on the operations and progress of the Commission. This co-operation is sincerely remembered and acknowledged.

Personnel

The Commission takes sincere pleasure in expressing appreciation to all members of its staff for their loyal, conscientious, and untiring service in meeting many exacting difficulties during 1950. At the end of the year, there was a total of 25,481 employed either directly or indirectly by the Commission. Included in this number were 5,447 working for Hydro but on the payrolls of contractors and consultants. Employed directly by the Commission were 20,024 workers. Of that number, 10,105 were permanent employees and 9,919 were on a temporary basis.

As Chairman, I have been deeply conscious of the all-important contributions made to the continuing progress of Hydro by my colleagues on the Commission, The Hon. George H. Challies and Mr. W. Ross Strike, K.C. I acknowledge also the untiring efforts of our most efficient General Manager and Chief Engineer, Mr. R. L. Hearn, and his able associates, Dr. Otto Holden and Mr. A. W. Manby, Assistant General Managers of Engineering and Administration respectively.

Respectfully submitted,

ROBERT H. SAUNDERS,

Chairman

LETTER OF SUBMITTAL BY THE GENERAL MANAGER AND CHIEF ENGINEER

TORONTO, ONTARIO, MARCH 30, 1951

ROBERT H. SAUNDERS, ESQ., C.B.E., K.C., *Chairman*
and COMMISSIONERS

SIRS:

I herewith submit the Forty-third Annual Report of The Hydro-Electric Power Commission of Ontario for the fiscal year ended December 31, 1950.

The Report relates to the Commission's activities on behalf of the co-operative systems, both for municipal and rural supplies, and to its trusteeship of the Northern Ontario Properties for the Province.

Looking back at 1950, we discover a year of records in production, consumption, added capacity and investment, new customers, and revenues. We enjoyed a year of improved water supply but we had to meet unexpected demands in the Southern Ontario System. It was a year in which we had to revise our plans for the years ahead.

It is my wish to acknowledge the splendid part played by the staff during the year to make the Commission's operations so successful.

Respectfully submitted,

R. L. HEARN,
General Manager
and Chief Engineer

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THE HYDRO-ELECTRIC POWER COMMISSION

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FORTY-THIRD ANNUAL REPORT
OF
**The Hydro-Electric Power Commission
of Ontario**

FOREWORD
and
Guide to the Report

THE Hydro-Electric Power Commission of Ontario is a corporate body administering a province-wide co-operative enterprise to produce and distribute electric power. The members of the Commission, a Chairman and two Vice-Chairmen, are appointed by the Lieutenant-Governor-in-Council to hold office during pleasure. One Commissioner must be a member, and two may be members, of the Executive Council.

The Commission was created in 1906 by an enactment of the Ontario Legislature after consideration of recommendations made by advisory commissions. These had been appointed in response to public demand, as expressed by various municipal bodies such as municipal councils and boards of trade, that the water powers of Ontario, as an asset belonging to the people of the Province, be conserved and developed for their benefit.

The Commission operates under the authority of the Power Commission Act (7-Edward VII c. 19) passed in 1907 as an amplification of the Act of 1906 and subsequently modified by numerous amending acts (Revised Statutes of Ontario, 1950, c. 281). It is a separate entity, a self-sustaining public concern endowed by the Power Commission Act with broad powers to produce, buy, and distribute electricity, and to perform certain regulatory functions with respect to the activities of the electrical utility commissions of the member municipalities. The enterprise represented by the Commission and its customers is familiarly known in the Province as Hydro.

Historical Note

The history of The Hydro-Electric Power Commission of Ontario since its founding in 1906 may for convenience be divided into two main parts, the dividing point being the death of Sir Adam Beck in 1925. During the whole of the first period, Sir Adam as Chairman was a gifted leader and champion who made Hydro essentially what it remains today.

The undertaking initially proposed to purchase a block of 100,000 horsepower from the Ontario Power Company Limited at Niagara Falls and to distribute this to thirteen municipalities which had signed the original contracts with the Commission to take power at cost. In 1909 the task of constructing a transmission system to distribute power to the member

municipalities was begun and by the end of the following year power was being supplied to several of them. Similarly, and at about the same time, the Commission built a short transmission line and a substation to serve Port Arthur with power purchased from the Kaministiquia Power Company, the amount of which at first varied from 1,500 to 2,000 horsepower. These two pioneer systems eventually grew into the Southern Ontario and Thunder Bay Systems respectively. In 1911 the Severn System was established and in the years following other systems were established to serve groups of municipalities in various sections of the Province. By 1919 the number of systems had reached eleven where it remained until 1924 when the Severn, Eugenia, and Wasdells Systems were consolidated to form the Georgian Bay System. This consolidation resulted from the fact that the transmission lines serving the systems had been interconnected and because advantages in administration and efficiency of operation could be obtained.

Efforts to promote rural electrification began in 1911 and were pressed with vigour from 1921 when the Provincial Government undertook to assist with grants in aid of construction of rural distribution facilities.

Systematic measurement of stream-flows of Ontario rivers was undertaken from 1912. Research and the testing of electrical equipment was necessary from the very beginning and the Commission's Strachan Avenue laboratories were erected in 1913.

In 1914 the Commission purchased its first generating station, Big Chute on the Severn River, installed capacity 2,160 kilowatts. Later in the same year the first Commission-built generating station at Wasdells Falls, also on the Severn River, was placed in service with an installed capacity of 640 kilowatts. The program of purchase and construction of plants thus launched was climaxed with the construction at Niagara Falls between 1917 and 1925 of the great Queenston-Chippawa development which first delivered power early in 1922 and was, at the time of completion, the world's largest hydro-electric plant, having an installed capacity of 397,600 kilowatts.

During the quarter-century since Sir Adam Beck's death, Hydro has grown steadily and soundly. From 1926 onwards the Commission drew extensively upon large Quebec suppliers in order to fully satisfy Ontario's steadily growing demands for power. During the thirties the Commission undertook to operate in trust for the Provincial Government what are called the Northern Ontario Properties. These were a group of systems which mainly served mining and pulp-and-paper industries and which were not interconnected. The process of consolidation of systems begun in 1924 continued and in 1944 the Southern Ontario System was created by uniting the former Niagara, Georgian Bay, and Eastern Ontario Systems.

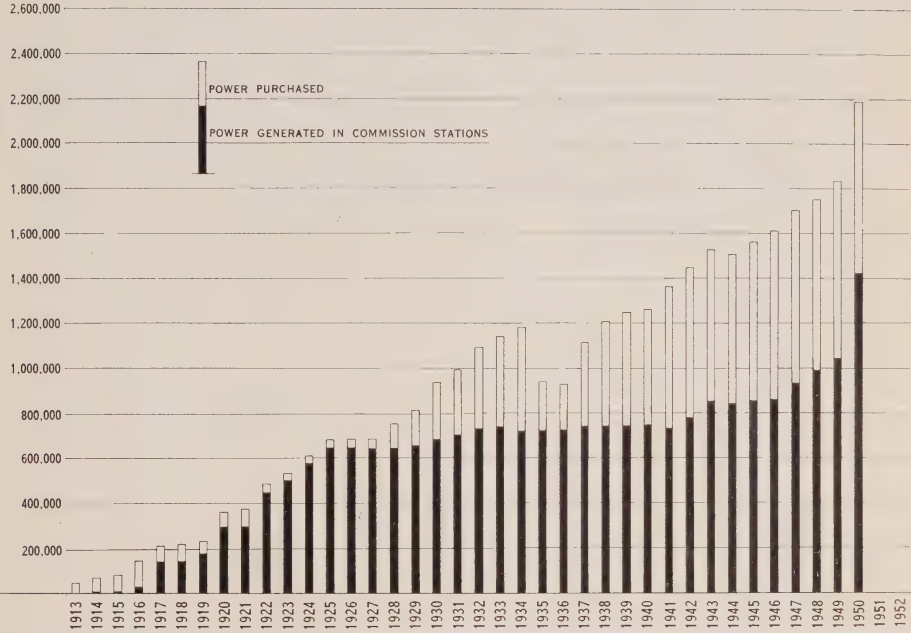
The Commission was able, during World War II, to supply the power needed for the remarkable expansion of essential war production that occurred in Ontario. In 1940 work began on the diversion of water from the Ogoki River basin into Lake Superior to supplement the Commission's power resources. In 1942 Barrett Chute Generating Station on the Madawaska River, installed capacity 40,800 kilowatts, was completed. In the following year the first unit of the 25-cycle generating station at DeCew Falls was placed in service, capacity 41,225 kilowatts. It had been expected that when the war

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

FORTY YEARS RECORD — SOUTHERN ONTARIO SYSTEM

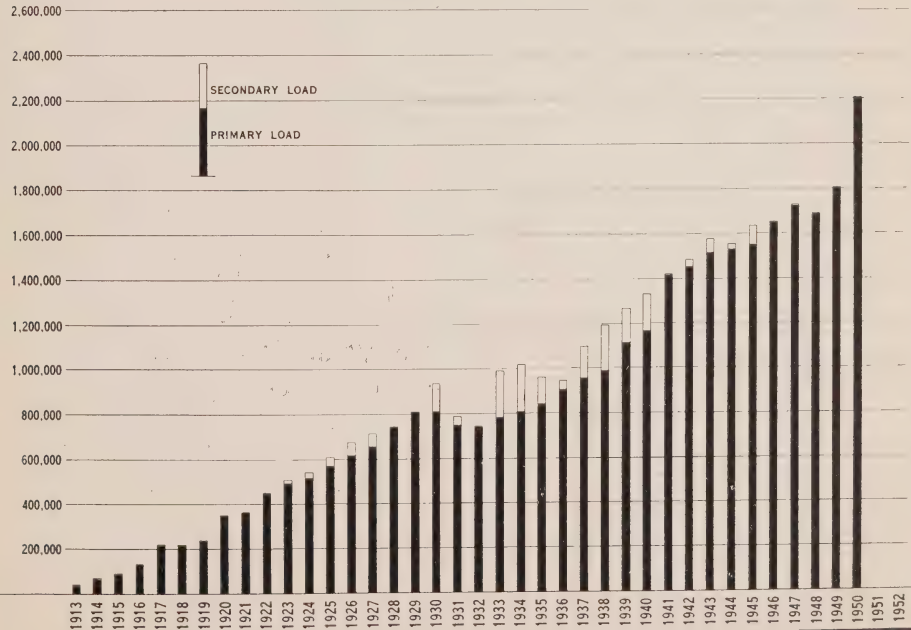
KILOWATTS

RESOURCES—DECEMBER DEPENDABLE CAPACITY



KILOWATTS

PRIMARY AND SECONDARY LOADS



was over there would be some cessation in the steady growth of power loads but instead, the Commission was confronted with continuing heavy power demands from its customers. As soon as materials and men became available a large-scale construction program was inaugurated which added between 1945 and 1950 735,000 kilowatts to the December dependable capacity of the Commission's generating stations, principally through the erection of six new hydro-electric stations and extensions to two others. Details of the post-war construction program are provided throughout this Report.

The rapid growth of Hydro in recent years and the consolidation of systems have made necessary a number of changes in organization and administration. In 1944 a comprehensive revision of rural service was placed in operation, the chief features of which were the establishment of a rural rate structure uniform throughout the Province by the amalgamation of all rural power districts. In 1947 the Commission took a step toward decentralization when the Province was divided for both administrative and operational purposes into nine regions, the geographical boundaries of which are shown on a map facing page 340.

In 1949 the Commission began the standardization at 60 cycles of those parts of the Southern Ontario System then served at a frequency of 25 cycles. This is an operation of great magnitude and complexity requiring much planning in meticulous detail and the employment of many technical skills. Completion of the project is expected to take approximately ten years.

During 1950 the Commission took the first steps toward the construction of a new 450,000-kilowatt generating station at Niagara to be named the Sir Adam Beck-Niagara Generating Station No. 2. The former Queenston-Chippawa Generating Station was renamed the Sir Adam Beck-Niagara Generating Station No. 1 at the time of the twenty-fifth anniversary of the first Chairman's death.

Organization

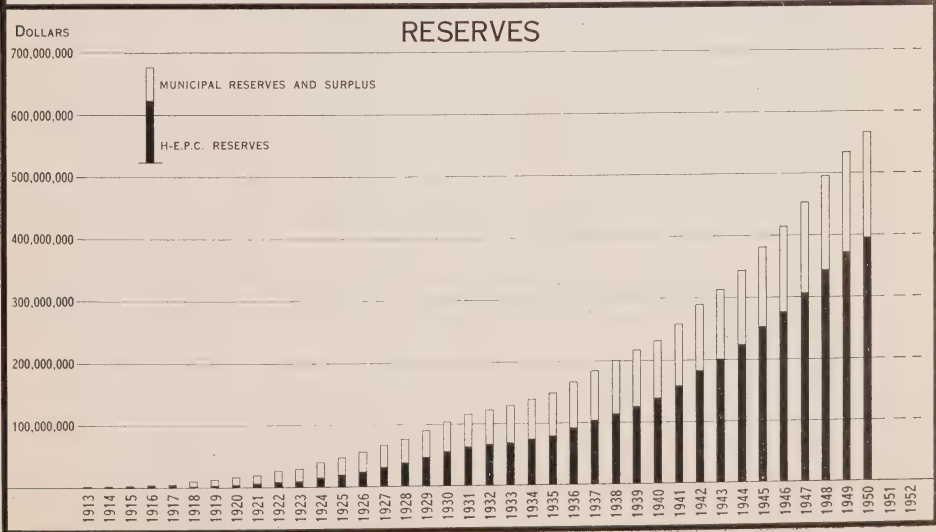
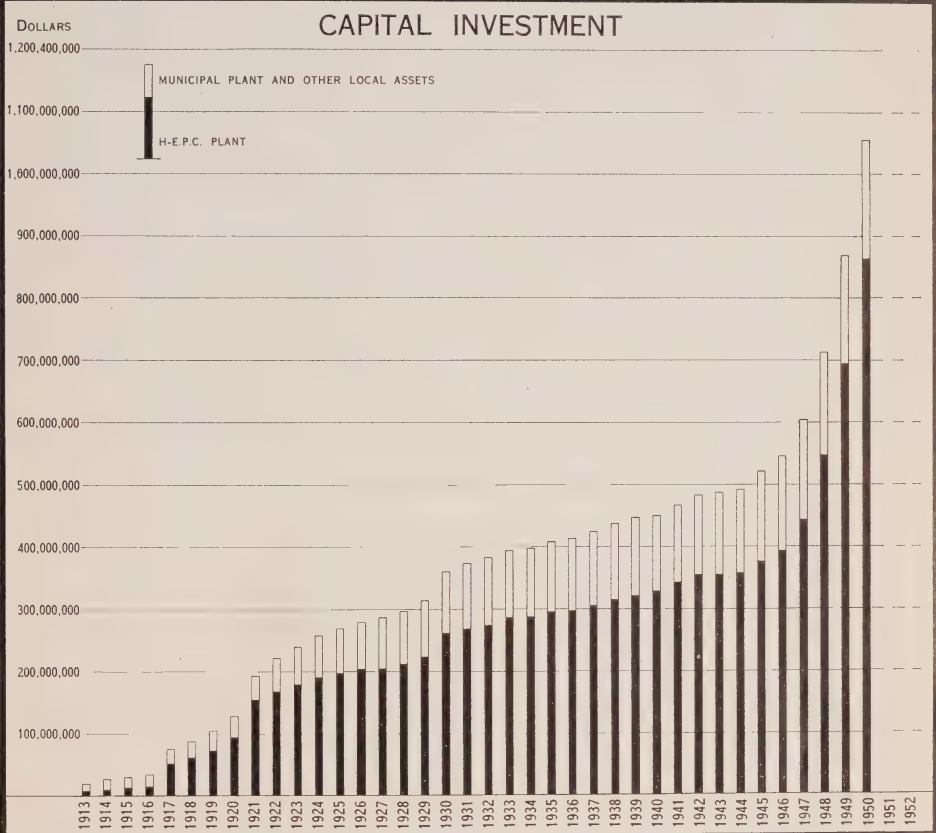
The organization of the Commission covers three main functions—policy making, policy interpretation, and action. The Commissioners constitute the final authority on policy decisions. The General Manager and Chief Engineer is the principal executive officer and is responsible for the carrying out of Commission policy and decisions, principally through the means of the two main branches of the organization—Engineering and Administration—each of which is headed by an Assistant General Manager.

Systems

The three systems now in operation are the Southern Ontario System, the Thunder Bay System, and the Northern Ontario Properties. The first and second of these are referred to as the co-operative systems as each serves a group of municipalities receiving power at cost under contracts established according to the provisions of The Power Commission Act. The Commission also serves directly certain industrial customers and the rural customers within the borders of these systems. The Southern Ontario System serves the older, more populous part of Ontario, the triangular peninsula enclosed by Lakes Huron, Erie, and Ontario, and the St. Lawrence and Ottawa Rivers. The Thunder Bay System serves a smaller locality at the Lakehead on the northwestern shore of Lake Superior.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

FORTY YEARS RECORD — ALL SYSTEMS



The system called Northern Ontario Properties is not a system in the same sense as the two just described. It is rather a group of systems serving districts extending north and west from the vicinity of Lake Nipissing almost to James Bay and to the Manitoba border. The Nipissing, Sudbury, Manitoulin, Algoma, Timiskaming, and Cochrane Districts lie within the Commission's Northeastern Region. The various transmission systems serving these districts, formerly separate, have been completely integrated since 1949. During 1950 a tie-line was placed in service between North Bay and the new Southern Ontario System generating stations on the upper Ottawa River. This interconnection between the Southern Ontario System and that part of Northern Ontario Properties situated in the Northeastern Region makes possible interchange of power and increases the security of both systems. The other districts served by the Northern Ontario Properties are Patricia and Rainy River, north and west of the territory of the Thunder Bay System. These districts and the Thunder Bay System together constitute the Commission's Northwestern Region. Customers in Patricia District are served by a system of local generating stations while Rainy River District receives its power from the Thunder Bay System. With the completion early in 1951 of an interconnection between Moose Lake Transformer Station and Dryden Transformer Station the whole of the Northwestern Region becomes integrated.

Financial Features of the Co-operative Systems

The basic principle governing the financial operations of the undertaking is that electric service is provided by the Commission to the municipalities and by the municipalities to the customers at cost. Cost includes not only all operating and maintenance charges, interest on capital investment, and reserves for depreciation, for contingencies and obsolescence, and for stabilization of rates, but also a reserve for a sinking fund to retire the Commission's capital debt.

The undertaking from its inception has been entirely self-supporting with the exception that the Provincial Government through grants-in-aid provides for 50 per cent of the cost of the rural distribution lines. This is done in pursuance of the Province's long-established policy of assisting agriculture, a policy approved of by citizens living in urban communities. The Province also guarantees the payment of principal and interest of all bonds issued by the Commission.

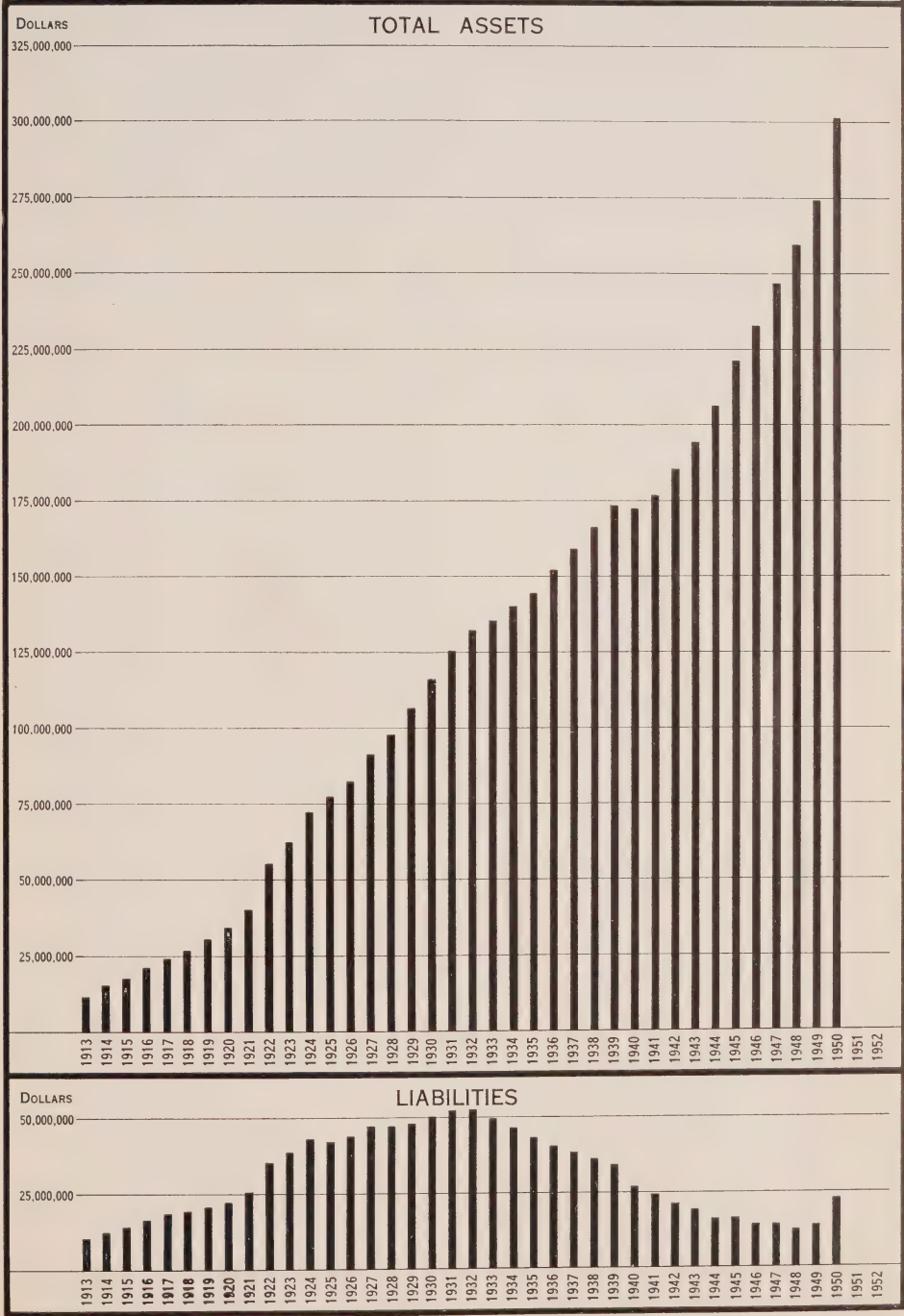
With the exception of fifteen suburban sections of townships known as "voted areas", all townships and 150 of the smaller villages are now served as an amalgamated rural division of Hydro service with a uniform rate structure. Thus, no matter where rural service is supplied in Ontario by Hydro, all rural customers, for the same class of service with the same consumption of electricity, pay the same amount.

The undertaking as a whole involves two distinct phases of operations as follows:

The *First* phase of operations is the provision of the power supply—either by generation or purchase—and its transformation, transmission, and delivery in *wholesale* quantities to individual municipal utilities, to

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

MUNICIPAL ELECTRICAL UTILITIES
FORTY YEARS RECORD



large industrial customers, and to rural power districts. This phase of the operations is performed by The Hydro-Electric Power Commission of Ontario.

The *Second* phase of operations is the *retail* distribution of electrical energy to customers within the limits of the areas served by the various municipal utilities and throughout the rural areas of the Province. For the consolidated rural power districts the Commission not only provides the power wholesale, but also—on behalf of the respective townships—attends to all physical and financial operations connected with the retail distribution of energy to the customers within the rural operating areas into which the consolidated rural power districts are divided for administrative purposes.

In the case of cities, towns, many villages, and certain thickly populated areas of townships, retail distribution of electrical energy provided by the Commission is in general conducted by municipal commissions under the general supervision of The Hydro-Electric Power Commission of Ontario as provided for in The Power Commission Act and The Public Utilities Act.

Fourteen-Month Fiscal Period

The fiscal period to which this Report relates extended from November 1, 1949 to December 31, 1950. The necessity for a fourteen-month period arose from a decision to make future fiscal years coincide with calendar years, commencing January 1, 1951. Where comparisons between the statistics for the 1950 fiscal year and those of earlier years are made, the 1950 figures have been reduced to a twelve-month basis. In other cases the 1950 statistics relate to the full fourteen-month fiscal period.

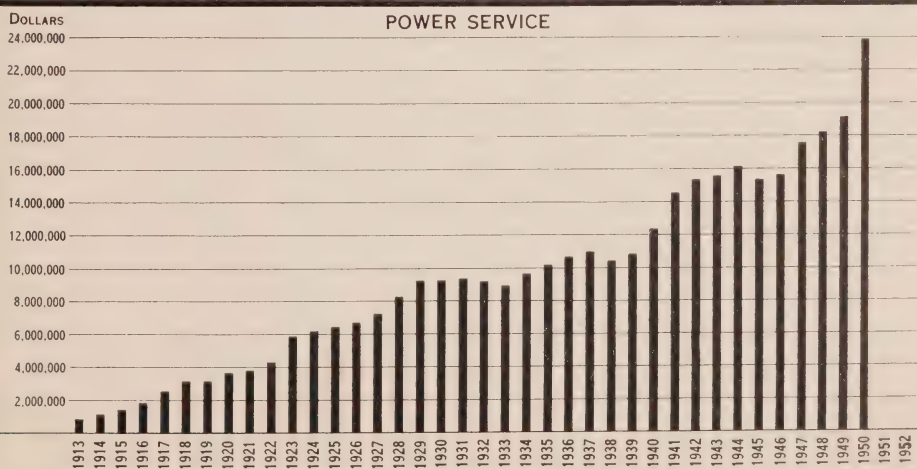
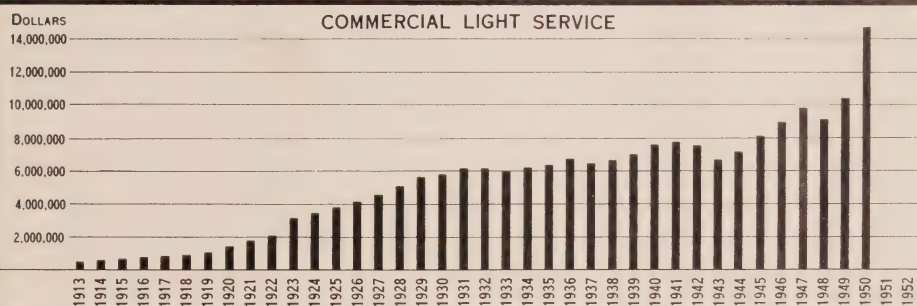
Guide to the Report

Section I, Operation of the Systems, describes and discusses the production, purchase, and distribution of power during the fiscal year. Details are given of loads carried, demands, water resources, weather conditions, and other factors affecting operations in the three systems. There are also sections on the maintenance of the systems and on forestry work.

Section II, Financial Statements, contains the Commission's balance sheets, statements of operations, and other financial information to give a comprehensive picture of the financial system and condition of the co-operative systems and the Northern Ontario Properties.

Section III, The Commission and its Customers, provides a description and analysis of the municipalities and direct customers served by the Commission with tables and graphs depicting the growth in domestic and commercial service within urban municipalities. Reports from the regions relating to municipal activities contain brief notes on such events as the construction of new distribution facilities and the admission of new municipalities. Reports on the Commission's frequency standardization program, direct service to industries, and electrical inspection activities are also included in this section.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

MUNICIPAL ELECTRICAL UTILITIES
FORTY YEARS REVENUES

Section IV, Rural Electrical Service in Ontario, reports on the growth of supply and the trend in the cost of electrical service throughout rural Ontario.

Section V, Engineering and Construction, tells of the construction of generating and distributing facilities, giving data and descriptions of the more important projects.

Section VI, Research and Testing Activities, contains reports on the various projects to which some forty panels of engineers and technical men devoted full or part time with a view to increasing the efficiency, economy, and safety of the Commission's operations.

Section VII, Personnel Administration, is devoted to a brief description of the Commission's staff and of some recent developments affecting its members.

Section VIII, Municipal Accounts, is the largest in the Report. In a series of four tabular statements, it presents the balance sheets, operating reports, rates, and consumption statistics of 321 municipalities served by the Commission.

Appendix I, Operations, contains a table of generating station capacities and outputs, and a table showing the loads and consumption of energy of the Commission's municipal customers.

Appendix II, Financial, contains various supporting schedules to supplement the financial statements contained in Section II.

Appendix III, Rural, gives the details of rural rates.

Appendix IV, Engineering and Construction, provides details of changes in the Commission's transmission and distribution systems.

Appendix V, Acts and Orders in Council, reproduces amendments to The Power Commission Act and a list of agreements approved.

The attention of the reader is drawn to the comprehensive index at the end of the Report.

LIST OF ABBREVIATIONS

A.T.S.	—autotransformer station	min.	—minimum
d-c	—direct current	N.O.P.	—Northern Ontario Properties
D.S.	—distributing station	ph.	—phase
F.C. & T.S.	—frequency-changer and transformer station	rpm	—revolutions per minute
G.S.	—generating station	R.S.	—regulating station
H-E.P.C.	—The Hydro-Electric Power Commission of Ontario	S.O.	—Southern Ontario
hp	—horsepower	S.S.	—switching station
Imp. Dist.	—Improvement District	T.B.	—Thunder Bay
kv	—kilovolt(s)	T.S.	—transformer station
kva	—kilovolt-ampere(s)	Twp.	—Township
kw	—kilowatt(s)	v	—volt
kwh	—kilowatt-hour(s)	V.A.	—voted area

SECTION I

OPERATION OF THE SYSTEMS

Additions to Generating Capacity—Remarkable Increases in Demand—Water Supply Deficient in Northeastern Region

IN June 1950, the Commission set a record of achievement when three new generating stations were officially opened within two weeks. They were the 42,000-kilowatt George W. Rayner Generating Station on the Mississagi River north of Thessalon, the 60,000-kilowatt Pine Portage Generating Station on the Nipigon River, and the 358,000-kilowatt Des Joachims Generating Station on the Ottawa River. After preliminary tests, the George W. Rayner and Pine Portage stations were operated at full capacity, while at Des Joachims seven of the eight 45,000-kilowatt units were in service by the end of the year. In addition, two of the eight 15,000-kilowatt generators at the newly constructed Chenaux Generating Station on the Ottawa River, some 60 miles below Des Joachims, were placed in service in November and December 1950.

To help meet the growing demand for electricity, five emergency fuel-electric stations, with capacities totalling 61,000 kilowatts were placed in service between November 1949 and April 1950.

The Commission also acquired two small hydro-electric generating stations at Merrickville and Burks Falls when these municipalities became associated with the System. These generating stations, capable of producing 900 kilowatts and 250 kilowatts respectively, were formerly owned by the Rideau Power Company Limited and Knight Brothers Company Limited. In connection with the Merrickville purchase, the Commission also acquired a distribution system from the Kemptville Milling Company.

The Commission operated 64 hydro-electric and 7 fuel-electric generating stations during the fiscal year. The Otto Holden (Construction) Generating Station however was not operated after March 1950. These stations produced 12,378,521,053 kilowatt-hours during that period. In addition, the Commission purchased under its regular, temporary, and short-term power

agreements 5,880,079,157 kilowatt-hours, making a total of 18,258,600,210 kilowatt-hours generated and purchased during the fiscal year. The record production for 1950 exceeded that of 1949 by 12.0 per cent but was still insufficient to meet the unprecedented demands for power.

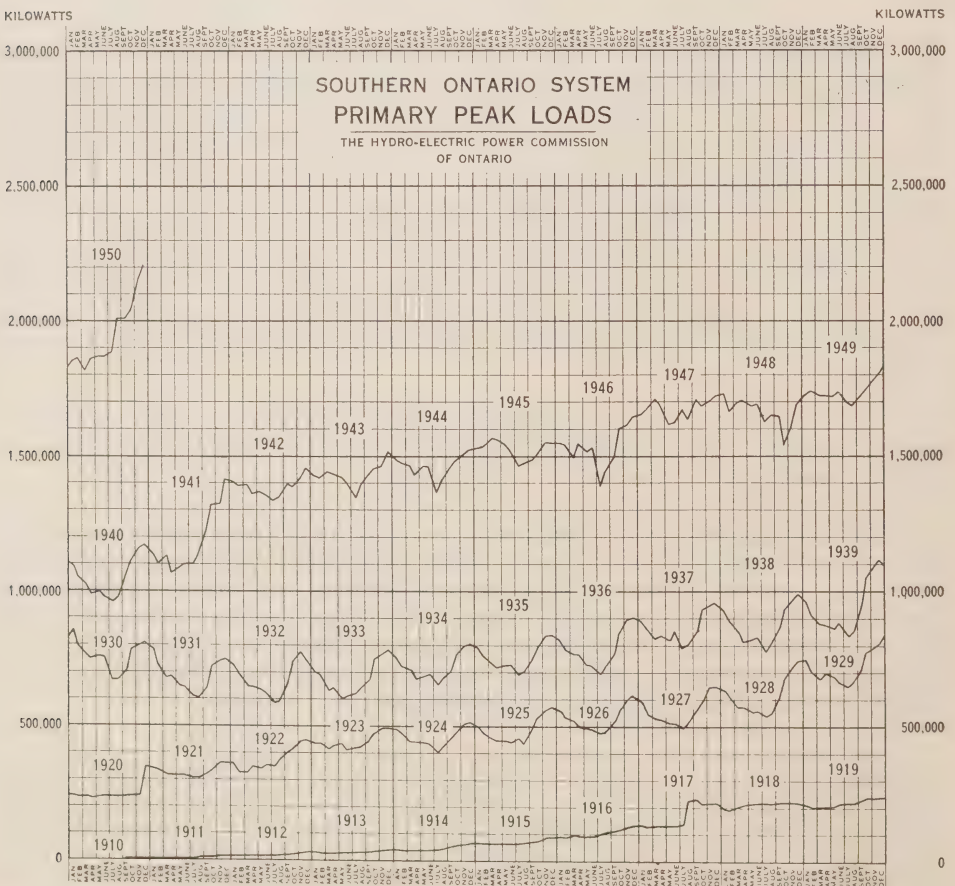
The tables supplying details of the capacities and outputs of the Commission's generating stations and the loads of municipalities that formerly appeared in this section of the Report appear now in Appendix I along with summary tabulations and statements of the Commission's operations during the fiscal year.

As operating conditions differ in the Commission's three systems, they are dealt with separately.

SOUTHERN ONTARIO SYSTEM

Load Trends

The maximum amount of power used in the Southern Ontario System advanced from 1,806,850 kilowatts in December 1949 to 2,210,929 kilowatts

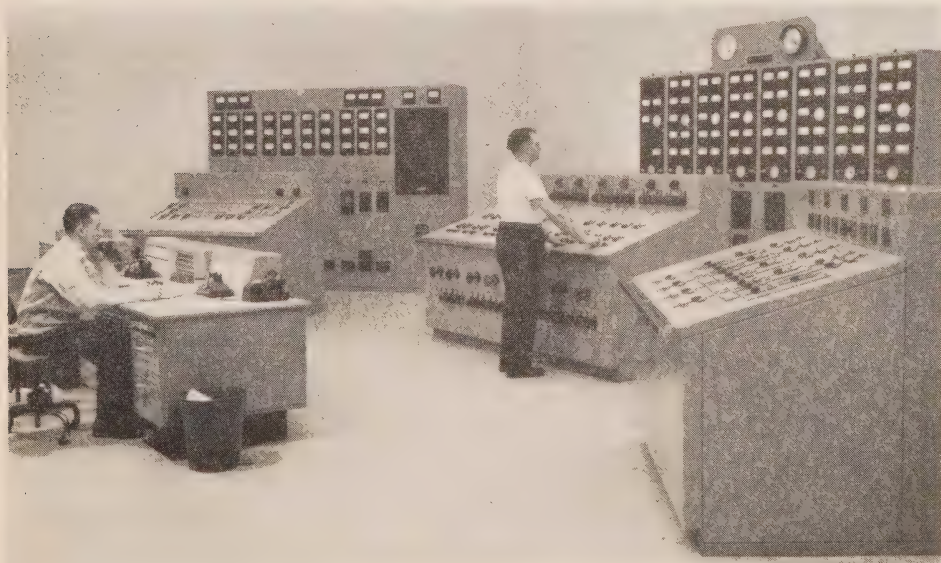


in December 1950, an increase of 22.4 per cent. During the fiscal year, 14,788,433,270 kilowatt-hours were used within the System. The production of the calendar year 1950 exceeded that of 1949 by 12.2 per cent.

Despite the addition of large blocks of power to the System and although water supply was better than in 1948 or 1949, the Commission was not in a position to supply total primary power requirements and it was necessary on most working days to curtail the loads of several industrial customers supplied directly by the Commission. Assistance was also obtained through voluntary conservation practised by consumers.

During the first six months of 1950, actual primary peak demands were running 6 to 8 per cent higher than in the previous year, much as had been forecast. It seemed probable that an adequate supply of power would be available to meet the power requirements anticipated in the fall and winter. Consequently, the restrictive measures which had been in force since the first of the year were revoked on June 28, 1950. However, commencing in July there was a remarkable upsurge in primary power demands and the rates of increase, which had been 7 per cent in mid-June, became 10 and 12 per cent in July, advancing to 16 per cent by September, or a rate of growth nearly five times that considered to be the long-term average.

Some assistance was afforded the Commission by certain municipalities which co-operated by remaining on Daylight Saving Time until November 26. In addition, the Department of Transport permitted the use of an additional 2,500 cubic feet per second of water through the Welland Ship Canal to enable the Commission to increase the output of its DeCew Falls



DES JOACHIMS GENERATING STATION—OPERATIONS CONTROL ROOM

Generating Stations by over 1,000,000 kilowatt-hours per day commencing October 12. Usually this additional diversion is made available to the Commission only during the non-navigation period from about December 15 to April 1. The new treaty between the United States and Canada covering the diversion of water from the Niagara River became effective at about the same time as the additional diversion through the Welland Ship Canal.

Following the return of all municipalities to Standard Time, primary peak demands soared to new highs, with the December peak reaching 2,360,864 kilowatts, an increase over that of December 1949 of 373,829 kilowatts or 18.8 per cent. It is estimated that, had the unrestricted demands of 1949 been met, the load would have reached 2,100,000 kilowatts. Therefore the actual growth in 1950 was probably 12.4 per cent. The rate of load growth experienced from July to December, which was both unseasonal and unprecedented, reflected industrial expansion; greater domestic, commercial, and rural demands for power; and the accelerated production of essential materials for defense purposes. At the end of the year the Commission had almost overtaken its primary energy demand but was still unable to completely fill daily primary peak demands.

Operation

The first unit at the newly constructed Des Joachims Generating Station was placed in service on July 6 and by the end of the fiscal year seven of the eight units were producing power. At Chenaux Generating Station the first and second of the eight units planned for this station were placed in service on November 20 and December 5, 1950. In addition, five emergency fuel-electric stations, with a total capacity of 61,000 kilowatts, were placed in service between November 1949 and April 1950.

As a result of the placing in service of the 1950 portion of the Commission's development program, offset slightly by the non-availability after February 1950 of 37,000 kilowatts formerly obtained through a special purchase from the Canadian Niagara Power Company, the dependable peak capacity of the resources available to the Southern Ontario System rose from 1,835,000 kilowatts in December 1949 to 2,181,000 kilowatts in December 1950, an increase of 346,000 kilowatts or 18.9 per cent.

Speaking generally, temperatures were subnormal over the entire Province from mid-February 1950 until October. The water situation early in the winter season of 1949-50 was decidedly unfavourable throughout southern Ontario and the watersheds of the Commission's Quebec suppliers. However, from the last week of December 1949 and during most of January a substantial improvement resulted from unseasonably mild weather and heavy rains. The rapid depletion of storage reserves was checked and at the close of the freshet period most reservoirs throughout southern Ontario as well as those in Quebec were full. A fairly heavy draft on storage reserves became necessary during the late summer and early fall but seasonal rains during November created above normal run-off which necessitated wasting water at several of the Commission's stations. As the year closed, storage conditions were good throughout the Southern Ontario System and excellent in the basins of the Commission's Quebec suppliers.

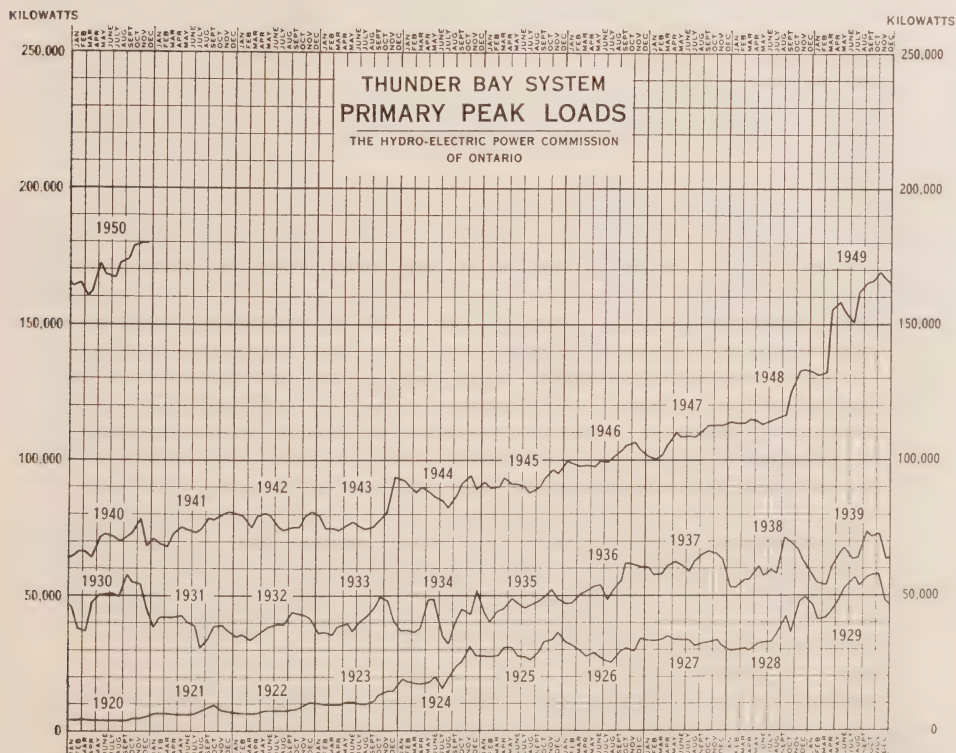
In addition to using all of the energy available under the main purchased power agreements, the Commission took delivery of excess energy from the Canadian Niagara, Beauharnois, Gatineau, MacLaren-Quebec, and Ottawa Valley Power Companies, and purchased power from customers who had diesel and steam-electric stand-by units. During the fiscal year, approximately 1,088,000,000 kilowatt-hours were purchased for the Southern Ontario System under temporary or short-term agreements.

THUNDER BAY SYSTEM

Load Trends

The maximum peak load carried on the Thunder Bay System was 224,710 kilowatts in December 1950, an increase of 49,832 kilowatts or 28.5 per cent over that of the corresponding month in the previous year. The total energy generated and purchased during the fiscal year amounted to 1,542,913,640 kilowatt-hours. The calendar year production was 15.2 per cent greater than that of 1949.

The primary peak demand rose from 166,978 kilowatts in December 1949 to 179,710 kilowatts in December 1950, an increase of 7.6 per cent.



The primary energy demand for the fourteen months of the current fiscal year was 1,357,313,640 kilowatt-hours which for the calendar year showed an increase of 9.3 per cent over the corresponding demand in 1949.

All primary demands on the combined System, including Rainy River District, were met during the year and, in addition, 185,600,000 kilowatt-hours were produced for the operation of process-steam boilers owned by several paper companies.

Operation

The power situation in the Thunder Bay System was relieved greatly when Pine Portage Generating Station on the Nipigon River was placed in service. This addition, together with the purchase of a relatively small amount of power for rural areas, raised the dependable peak capacity of the resources available to the System from 172,000 kilowatts in December 1949 to 232,600 kilowatts in December 1950, an increase of 60,600 kilowatts or 35.2 per cent.

Natural flows and lake-levels, which had been predominantly above normal, led to excellent water conditions throughout the Thunder Bay System during the fall and winter months of 1949-50. The snow cover, which had an unusually high content of water, was also above normal and led to a spring freshet which rapidly replenished the various storage basins. Throughout the remainder of the year natural flows and lake-levels were above normal and water conditions were excellent.

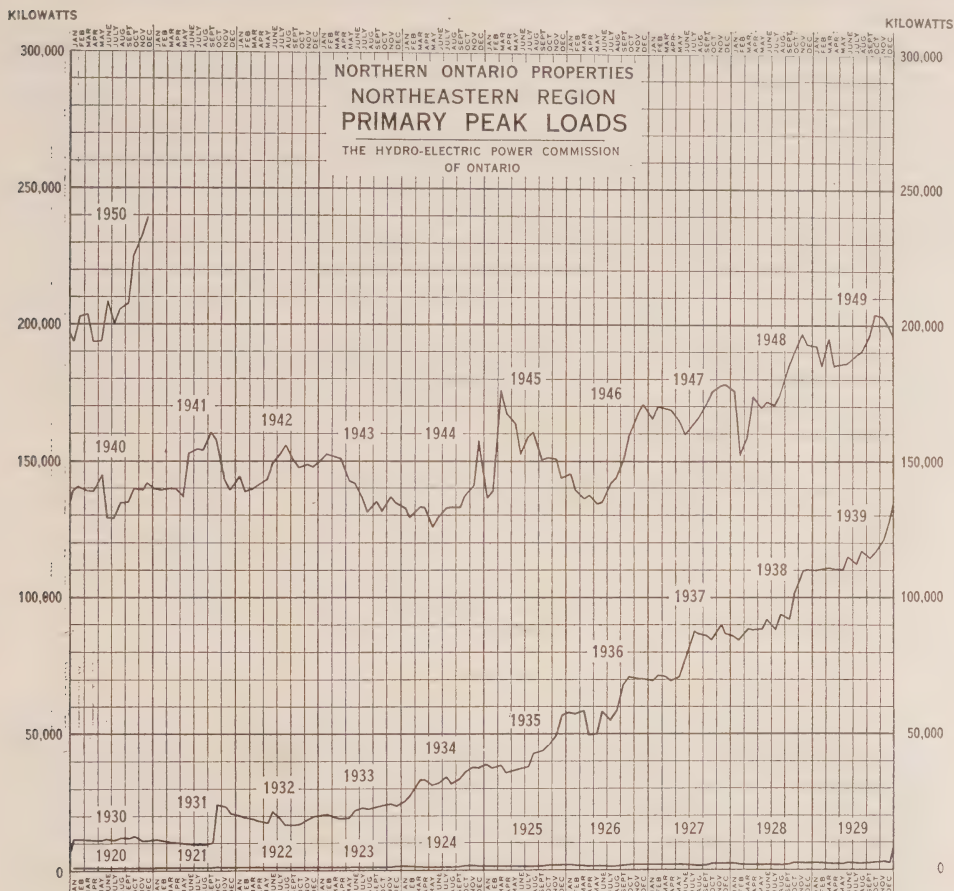
NORTHERN ONTARIO PROPERTIES

Load Trends

The Commission's Northeastern Region was wholly integrated on October 16, 1949 when Manitoulin Island was electrically connected with the mainland. Since November 1, 1949, therefore, statistics on loads have been reported for the Northeastern Region as an operating unit. The Patricia District, a part of the Northwestern Region, had no physical connection with other districts during 1950 although a tie-line to connect it with the Thunder Bay System was under construction. Statistics of loads in the Patricia District are therefore compiled separately and the total load of the Northern Ontario Properties is the sum of the loads of the Northeastern Region and the Patricia District.

The maximum amount of power used in the Northern Ontario Properties rose from 221,712 kilowatts in December 1949 to 278,926 kilowatts in December 1950, an increase of 25.8 per cent. The total energy produced amounted to 1,927,253,300 kilowatt-hours in the fiscal year, the calendar year's production being 8.3 per cent more than that of 1949.

The primary peak demand occurring in December 1950, 258,411 kilowatts, was 18.4 per cent greater than that of December 1949. Had there been no restrictions in the Northeastern Region in 1949, it is estimated that

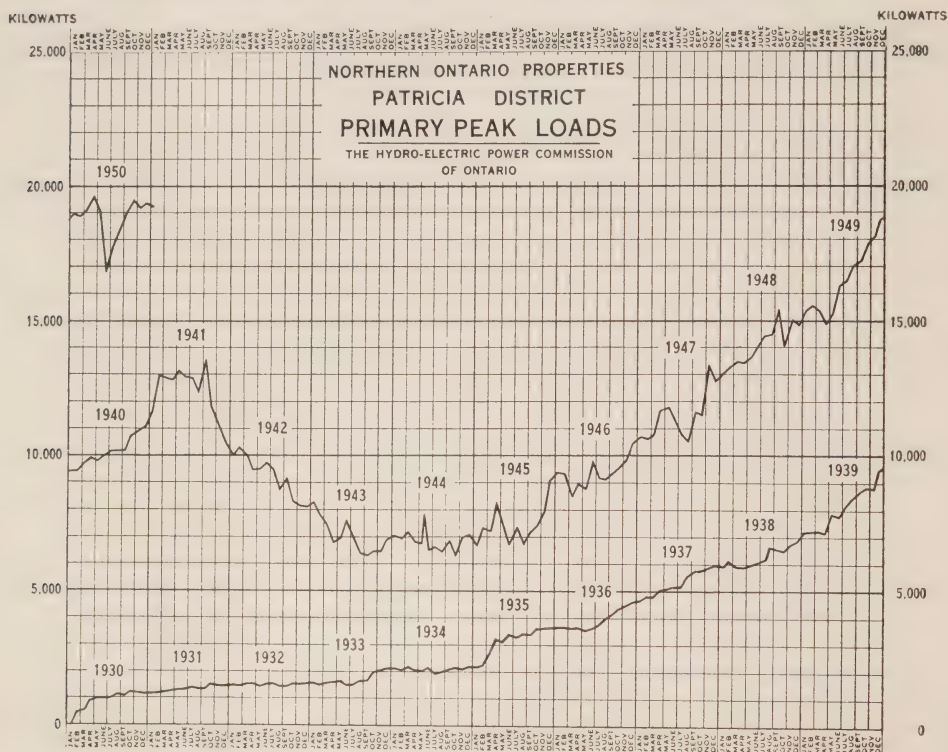


the primary peak demand of the Northern Ontario Properties would have reached 222,700 kilowatts, indicating an actual load growth of approximately 16 per cent. The primary energy demand for the fiscal year ended December 1950 amounted to 1,799,156,548 kilowatt-hours. In the calendar year ended December 1950, the energy demand was 6.6 per cent greater than that in 1949.

Operation

The first unit at George W. Rayner Generating Station was placed in service July 15, 1950, and by the end of the month this station was operating at full capacity. This major installation, together with minor revisions in the capacities of existing stations, resulted in the dependable peak capacity of the resources available to the Northern Ontario Properties rising from 275,200 kilowatts in December 1949 to 316,700 kilowatts in December 1950, an increase of 41,500 kilowatts or 15.1 per cent.

Late in 1949, a serious water situation developed throughout the North-eastern Region as a result of prolonged subnormal precipitation. Water conditions continued to deteriorate until late in January 1950. The spring



freshet began in April and provided relatively high flows throughout the spring months. By the end of June all storage reservoirs were full. During the summer, precipitation and natural flows were again below normal so that by autumn a shortage of water was again imminent. Fortunately, heavy rains during October and November increased river-flows and raised the levels of storage lakes and at the end of 1950 water conditions were excellent.

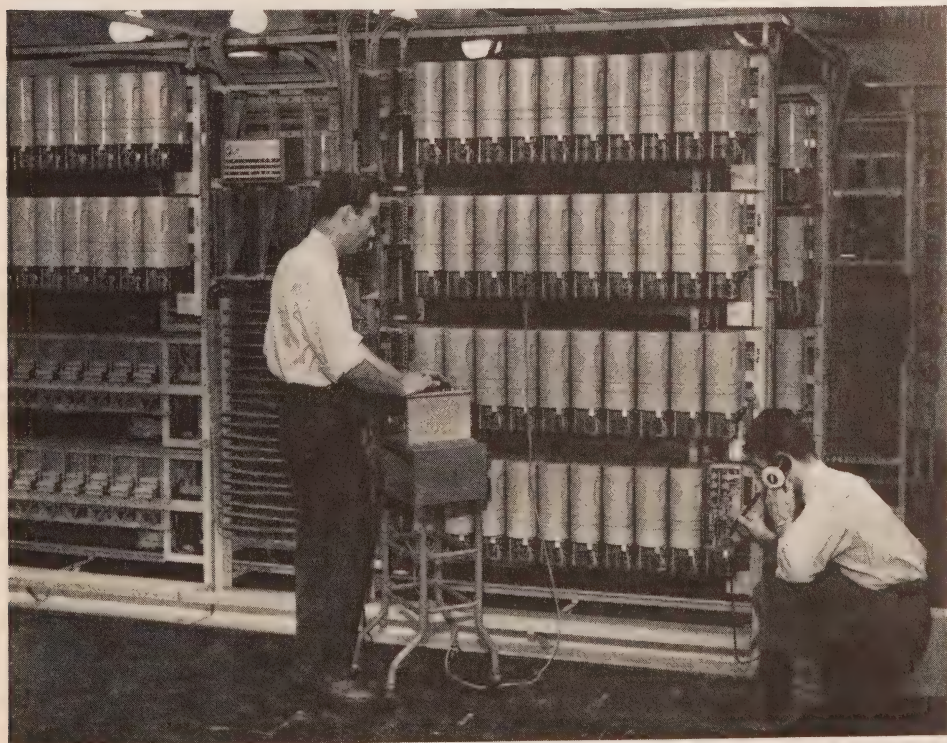
The water situation during the fall of 1949 made it necessary to reduce supply to all customers in the Northeastern Region by approximately 10 per cent commencing November 21, 1949. A further reduction in quotas became necessary on January 16, 1950 and regulations restricting the use of electricity for certain purposes were placed in effect. Fortunately, water conditions soon improved, permitting a return to the original quotas on January 27. As the general situation improved, regulations were suspended on February 13 and quotas were increased to about 93 per cent of normal takings prior to November 1949. By March 27, 1950 the system of quotas was abolished and normal conditions were restored.

The Commission was able during 1950 to interconnect its 25-cycle network with that of the Northern Quebec Power Company so that power from the Quebec Hydro-Electric Commission's Rapide VII Generating Station could be made available to the Northeastern Region. Parallel operations

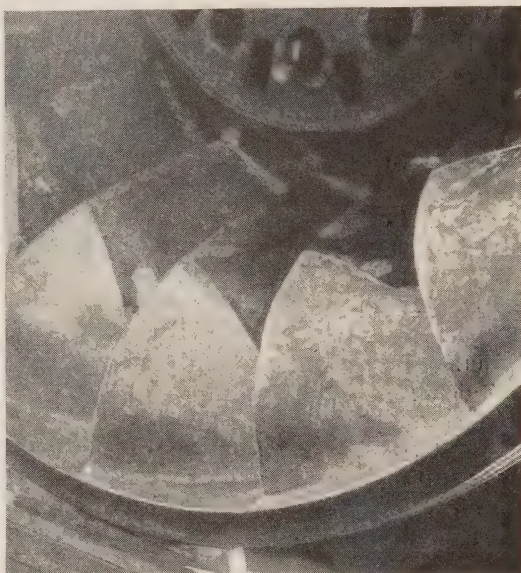
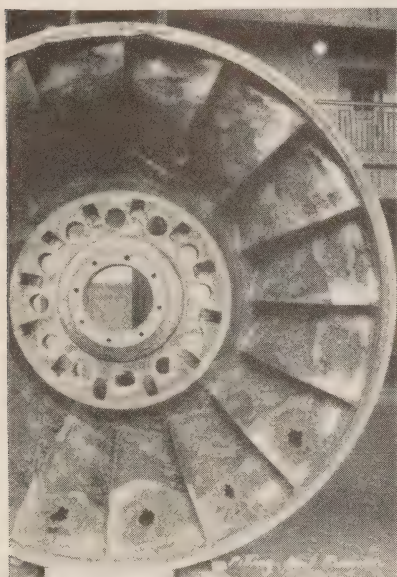
commenced in December 1949 and continued to March 1950 during which time the Commission purchased 15,721,721 kilowatt-hours from the Quebec Commission.

During periods when deliveries were in excess of those required to meet primary demands, some 107,000,000 kilowatt-hours of surplus energy were supplied to the Abitibi Power & Paper Company for the operation of electric boilers. Power was also interchanged with the same firm at other times in order to make the most advantageous use of river-flows, with the result that approximately 19,000,000 kilowatt-hours were supplied to the Commission during the fiscal year. Assistance was also received from the Mattawa Electric Light and Power Company, the Otto Holden Construction (steam) Generating Station, the Huronian Company, and from customers having fuel-electric stand-by units.

In the Patricia District, resources were adequate to meet all primary power demands except for the period between May 25 and June 24, 1950. During this period the rate of discharge from Lac Seul reduced the output of Ear Falls Generating Station so that it became necessary to restrict delivery of primary power. Approximately 22,500,000 kilowatt-hours were produced during the fiscal year for the operation of electric boilers owned by four mining customers.



HEAD OFFICE AUTOMATIC TELEPHONE EXCHANGE—Checking the new second-selector rack installed to permit expansion of the Commission's internal communications facilities



ELECTRIC WELDING

Left: Pitting of the vanes on No. 1 runner at Sir Adam Beck-Niagara Generating Station No. 1

Right: Close-up of a portion of the same runner after the vanes were repaired by welding

MAINTENANCE OF THE SYSTEMS

Mechanical

In addition to routine maintenance and inspection of all hydraulic equipment, five large turbines, four of which were in the Niagara district and one at the Chats Falls Generating Station, were completely overhauled. Essential overhauling and reconditioning of the smaller turbines, principally those in the stations serving the Northeastern Region, were carried out.

Electrical

During the past year, the stator coils of three small and one large generator were completely replaced. Five generators and two synchronous condensers were given major overhauls. In addition to the foregoing major repairs, the majority of the generators and synchronous condensers were given routine inspections with minor overhaul. Minor repairs, made necessary by lightning damage, were effected on a number of smaller generators, the majority of which were older units situated in the northern part of the Province.

Minor improvements were made to several high-voltage switchgear units to improve their operating characteristics.

Transformer failures were relatively few. Nine large and twenty small units were rebuilt and twenty-four large and sixty small transformers were given a general overhaul.

The Commission purchased and installed in the Bridgman Transformer Station electrical maintenance shops an oil re-treating unit capable of processing oil at the rate of about 500 gallons per normal working day. This unit is being used to rehabilitate oil, the acid content of which has, as a result of its many years of service in various pieces of electrical equipment, risen above the permitted values for insulating oil. Although tests are still being conducted it is expected that the rehabilitated oil will have properties only slightly inferior to those of new oil.

Transmission Lines

Severe storms in January, February, and November 1950 caused considerable damage to poles, lines, and transformers. During the February storm, 2,375 poles were broken or left leaning, 2,500 breaks were made in conductors, and 150 small transformers were damaged.

During periods of general line maintenance, 15,000 distribution poles and 4,000 transmission poles, which were found to be defective, were replaced.

Helicopter patrol of the more important high-voltage transmission lines, which was inaugurated during 1949, continued with the helicopter flying 40,000 miles on line patrol and inspection work during 1950.

FORESTRY WORK

Line Clearing

The following table shows the work that has been performed on transmission, rural, and municipal line-clearing operations during the fiscal year 1950, exclusive of the work done by linemen:

Summary of Line Clearing Operations

	Brush cutting pole spans	Trees treated	Miles of line cleared	Tree density per mile
New line construction.....	122	31,315	545	58
Municipal systems (37).....		11,149	133	84
Transmission and telephone lines.....	1,434	70,328	2,464	29
Rural operating areas.....	808	125,604	2,298	55
Rural operating areas—Contractors.....	694	26,923	544	50
Totals.....	3,058	265,319	5,984	44

Forest Management

Approximately 62 acres of land in the Niagara Region were planted with 74,000 trees. In preparation for the 1951 reforestation program, an order for 94,500 seedling trees was placed with the Department of Lands and Forests.



BRUSH CONTROL

Experimental control of right-of-way brush by means of chemical herbicides. The untreated portion is in the foreground.

Preliminary arrangements were made to make land-use surveys of Commission-owned property in several of the regions to determine the extent of wooded areas as well as the amount of reforestation required.

Approximately 144 acres of reforested area at Trenton were sprayed with chemicals to control an outbreak of the pine saw-fly.

Power sprays were used in eight of the nine regions to control insects, fungus diseases, and weeds. Transmission rights-of-way were also sprayed with chemicals to control underbrush, and stumps were chemically treated to control regrowth following cutting operations. All of these operations produced excellent results.

Training of forestry personnel was carried on at the Commission Training Centre. Courses lasting from two to eight weeks were attended by 98 employees.

SECTION II

FINANCIAL STATEMENTS

Relating to

**Properties Operated by The Hydro-Electric Power Commission of
Ontario on Behalf of Co-operating Municipalities and Rural
Power Districts of the Southern Ontario System and
the Thunder Bay System,**

and to

**Northern Ontario Properties Held and Operated by the Commission
in Trust for the Province of Ontario**

IN this section of the Report and in Appendix II are presented financial statements of The Hydro-Electric Power Commission of Ontario, segregated into certain distinct divisions. The first division relates to those activities on behalf of the co-operating municipalities, which are partners in the main Hydro undertaking comprising the Southern Ontario System, the Thunder Bay System, and rural power districts associated with these two systems. The second relates to the administration of the Northern Ontario Properties which are held and operated by the Commission in trust for the Province of Ontario.

Co-operative Systems

In the Foreword to this Report a brief reference is made to the basic principle governing the operations of the Hydro undertaking in supplying electric service at cost, and to the wholesale and retail aspects of the operation. A description is also given of the systems within which the partner municipalities are co-ordinated for securing common action with respect to power supplies.

The first tables in Section II give collective results for the activities in the two co-operative systems. These tables include a balance sheet, a statement of operations, and statements of funded debt, followed in Appendix II by detailed supporting schedules of fixed assets and reserves. Appendix II

also contains tables which relate to the individual municipality's part in the wholesale activities of the Commission.

The charges for power supplied by the Commission to the various municipalities vary with the amounts of power used, the distances from the sources of supply, and other related factors. The municipalities are billed at estimated interim rates each month during the year and credit or debit adjustments are made at the end of the year when the Commission's books are closed and the actual cost payable by each municipality for power taken has been determined. Schedules in Appendix II in the Report set out these results.

Included in the municipality's remittance to the Commission for the wholesale cost of power is a sinking fund provision on a 40-year basis for the purpose of liquidating capital liabilities. A table shows the sinking fund equity that has been acquired by each municipality.

The ultimate source of all revenue to meet costs—whether for the larger operations of the Commission or for the smaller local operations of the municipalities—is, of course, the customer. Out of the total revenue collected by each municipal utility from its customers for service supplied, only an amount sufficient to pay the wholesale cost of power supplied by the Commission is remitted to it. The balance of municipal electrical revenue is retained to pay for the expense incurred by the local utility in distributing the electrical energy to its customers.

Northern Ontario Properties

The statements and schedules of these properties include the balance sheet, statement of operations and, in Appendix II, detailed schedules of fixed assets and reserves. These schedules are similar in form to the corresponding schedules relating to the co-operative systems.

Municipal Utilities

The balance sheets, operating reports, and statistical data of individual municipalities appear in Section VIII, under the heading of "Municipal Accounts," and relate to the operation of local distribution systems. To this section there is an explanatory introduction to which the reader is specially referred.

Auditing of Accounts

The accounts of the Commission are verified by auditors appointed by the Provincial Government. The accounts of the electrical utility of each individual municipality are prepared according to approved and standard practice and The Public Utilities Act requires that they shall be audited by the auditors of the municipal corporation.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

FINANCIAL ACCOUNTS

For the fourteen-month period ended December 31, 1950

Relating to Properties operated on a "Cost Basis" for the Co-operating
Municipalities and Rural Power Districts which are supplied with
Electric Power and Services from the following Properties:

Southern Ontario System

Thunder Bay System

Service and Administrative Buildings and Equipment

	Statement No.	Page
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Statement of Operations for the fourteen-month period ended December 31, 1950.....	2	28
Schedules supporting the Balance Sheet as at December 31, 1950:		
Funded Debt.....	5	34
Advances from the Province of Ontario.....	6	36
Fixed Assets—By Systems and Properties.....	7	295
Fixed Assets—Changes During Year.....	8	300
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Frequency Standardization Reserve.....	10	304
Contingencies and Obsolescence Reserves.....	11	305
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Rural Power Districts—Rates Suspense Account.....	13	306
Sinking Fund Reserve.....	14	307
Statements of Cost of Power for the fourteen-month period ended December 31, 1950.....	15 & 16	308
Statements of Sinking Fund Payments by Municipalities.....	17 & 18	326

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of
Ontario in trust for the Province of Ontario

FINANCIAL ACCOUNTS

For the fourteen-month period ended December 31, 1950

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Sinking Fund Reserve.....	23	336

THE HYDRO-ELECTRIC POWER

SOUTHERN ONTARIO AND

BALANCE SHEET AS AT

ASSETS

FIXED ASSETS AT COST:

Southern Ontario System.....	\$568,838,960.76
Thunder Bay System.....	71,284,695.54
Administrative and service buildings and equipment.....	14,717,708.37
Rural Power Districts.....	\$ 97,280,342.23
Less grants in aid of construction from Province of Ontario.....	48,223,013.73

49,057,328.50

\$703,898,693.17

Less reserve for depreciation..... 97,153,337.70

\$606,745,355.47

CURRENT ASSETS:

Working funds.....	\$ 180,001.97
Temporary investments in government bonds at amortized cost (approximate market value \$3,954,000.00).....	3,999,505.63
Sundry accounts receivable.....	2,287,903.47
Power accounts receivable.....	8,116,004.78
Rural Power Districts grants receivable.....	1,292,988.63
Interest accrued.....	697,807.87
Consumers' deposits.....	357,500.00
Prepayments and sundry deposits.....	199,957.04
Northern Ontario Properties—current account.....	2,814,898.74

19,946,568.13

INVENTORIES:

Construction and maintenance materials and supplies.....	\$ 25,371,844.57
Construction and maintenance tools and equipment.....	10,386,492.80

35,758,337.37

DEFERRED CHARGES AND OTHER ASSETS:

Frequency standardization—equipment and supplies.....	\$ 21,560,642.85
Debenture discount and expense less amounts written off...	5,874,936.69
Agreements, mortgages, and sundry investments.....	128,645.21
Work in progress—deferred work orders.....	1,915,143.51

29,479,368.26

RESERVE FUND INVESTMENTS:

Investments in government and government guaranteed bonds at amortized cost (approximate market value \$90,623,712.00)	
Held for: Pension fund.....	\$ 22,990,956.93
Employers' liability insurance fund.....	3,526,398.15
Contingencies and obsolescence and stabilization of rates reserves.....	59,965,953.29

86,483,308.37

\$778,412,937.60

COMMISSION OF ONTARIO

THUNDER BAY SYSTEMS

DECEMBER 31, 1950

Statement No. 1

LIABILITIES AND RESERVES

LONG TERM LIABILITIES (at par of exchange):

Funded debt	\$503,077,000.00	
Less debentures issued to finance Northern Ontario Properties, a separate trust operated by the Commission for the Province of Ontario	68,369,000.00	
	<u>\$434,708,000.00</u>	
Advances from the Province of Ontario . . . \$ 67,783,042.40		
Less advances for Northern Ontario Properties, a separate trust operated by the Commission for the Province of Ontario	4,592,359.40	
	<u>63,190,683.00</u>	
		<u>\$497,898,683.00</u>

CURRENT LIABILITIES:

Bank overdraft (secured)	\$ 706,031.72	
Accounts and payrolls payable	12,916,185.30	
Power accounts—credit balances	60,404.58	
Consumers' deposits	535,434.11	
Debenture interest accrued	2,916,848.03	
Miscellaneous accruals	564,547.37	
		<u>17,699,451.11</u>

SPECIAL RESERVES:

Pension fund	\$ 23,149,649.64	
Employers' liability insurance fund	3,560,206.00	
Frequency standardization	42,575,296.48	
		<u>69,285,152.12</u>

GENERAL RESERVES:

Contingencies and obsolescence	\$ 37,843,587.88	
Stabilization of rates	23,828,899.57	
Rural Power Districts—rates suspense	2,383,869.21	
Miscellaneous	1,261,230.49	
		<u>65,317,587.15</u>

SINKING FUND RESERVE:

Represented by funded debt and provincial advances retired through sinking funds	128,212,064.22	
	<u>\$778,412,937.60</u>	

Commitments under uncompleted contracts for the construction of fixed assets, approximately \$19,000,000.

Auditors' Report

We have examined the balance sheet of the Southern Ontario and Thunder Bay Systems of The Hydro-Electric Power Commission of Ontario as at December 31, 1950 and the related statement of operations for the fourteen-month period ended on that date. In connection therewith we made a general review of the accounting methods and, without making a detailed audit of the transactions, examined or tested the accounting records of the Commission and other supporting evidence by methods and to the extent we deemed appropriate. We received all the information and explanations we required from its officers and employees.

We report that in our opinion the above balance sheet and the statement of operations have been drawn up so as to exhibit a true and correct view of the state of the affairs of the Southern Ontario and Thunder Bay Systems of the Commission at December 31, 1950 (subject to the trusts which prevail in respect thereto) and of the results of their operations for the fourteen-month period ended on that date, according to the best of our information and the explanations given us and as shown by the books of the Commission.

CLARKSON, GORDON & CO.
Chartered Accountants.

Toronto, Canada,
June 5, 1951.

THE HYDRO-ELECTRIC POWER

SOUTHERN ONTARIO AND

STATEMENT OF

For the Fourteen-Month Period

	Southern Ontario System
	\$
COST OF POWER:	
Cost of power purchased.....	17,618,364.73
Operating, maintenance, and administrative expenses.....	16,596,690.92
Interest (including interest on funded debt and reserves less interest earned on investments).....	17,523,665.05
Provision for depreciation.....	4,158,173.84
Provision for contingencies and obsolescence.....	6,021,968.98
Provision for frequency standardization.....	6,984,158.80
Provision for stabilization of rates.....	
Provision for sinking fund.....	4,650,484.89
	73,553,507.21
Cost of power supplied to Rural Power Districts by systems.....	8,420,163.38
Total.....	65,133,343.83
AMOUNTS BILLED TO MUNICIPALITIES AND OTHER CUSTOMERS:	
Municipalities (at interim rates).....	52,680,264.21
Rural Power Districts.....	
Companies.....	15,626,830.46
Mining area.....	
Local distribution systems.....	114,155.79
Total.....	68,421,250.46
Excess or <i>deficiency</i> of amounts billed.....	3,287,906.63

Municipalities:

Excess of amounts billed over cost of power, credited to municipalities on annual adjustment of cost of power:	
Southern Ontario System.....	\$ 3,287,906.63
Thunder Bay System.....	76,557.19
	\$ 3,364,463.82

Rural Power Districts:

Excess or <i>deficiency</i> of revenue over cost of power transferred to the Rural Power Districts rates suspense account:	
Southern Ontario System.....	\$ 148,479.58
Thunder Bay System.....	55,417.78
	93,061.80
	\$ 3,457,525.62

COMMISSION OF ONTARIO

Statement No. 2

THUNDER BAY SYSTEMS

OPERATIONS

Ended December 31, 1950

Thunder Bay System	Distribution in Rural Power Districts		Total
	Southern Ontario	Thunder Bay	
\$	\$	\$	\$
41.47			17,618,406.20
1,382,677.00	5,003,648.39	93,586.11	23,076,602.42
2,222,270.49	1,972,902.20	39,450.97	21,758,288.71
484,489.98	1,003,342.81	20,237.84	5,666,244.47
399,521.81	803,536.85	6,810.01	7,231,837.65
			6,984,158.80
83,476.33			83,476.33
614,881.38	532,868.81	10,655.48	5,808,890.56
5,187,358.46	9,316,299.06	170,740.41	
72,937.75	8,420,163.38	72,937.75	
5,114,420.71	17,736,462.44	243,678.16	88,227,905.14
1,831,036.62			54,511,300.83
	17,884,942.02	188,260.38	18,073,202.40
2,918,914.95			18,545,745.41
441,026.33			441,026.33
			114,155.79
5,190,977.90	17,884,942.02	188,260.38	91,685,430.76
76,557.19	148,479.58	55,417.78	3,457,525.62

NORTHERN ONTARIO

Held and operated by The Hydro-Electric Power Commission

BALANCE SHEET AS AT

ASSETS AND DEFICIT

FIXED ASSETS AT COST:

Northern Ontario Properties.....	\$ 98,426,727.41	
Administrative and service buildings and equipment.....	390,393.90	
Rural Power District.....	\$ 9,563,227.49	
Less grants in aid of construction from Province of Ontario.....	4,725,546.86	
	<u>4,837,680.63</u>	
	\$103,654,801.94	
Less reserve for depreciation.....	<u>9,155,541.40</u>	
		\$ 94,499,260.54

CURRENT ASSETS:

Working funds.....	\$ 18,605.00	
Sundry accounts receivable.....	36,141.81	
Power accounts receivable.....	1,172,391.94	
Interest accrued.....	12,328.26	
Consumers' deposits—securities.....	1,772,975.00	
Prepayments.....	<u>8,223.98</u>	
		3,020,665.99

INVENTORIES:

Maintenance materials and supplies.....	\$ 1,126,295.82	
Maintenance tools and equipment.....	<u>421,585.22</u>	
		1,547,881.04

DEFERRED CHARGES AND SUNDRY ASSETS:

Debenture discount and expense less amounts written off... \$	914,086.88	
Account receivable—payable in annual instalments 1951-1989.....	1,963,834.83	
Work in progress—deferred work orders.....	<u>214,972.76</u>	
		3,092,894.47

RESERVE FUND INVESTMENTS:

Government and government guaranteed bonds at amortized cost (approximate market value \$1,515,596.00)		
Held for sinking fund reserve.....		1,448,955.30

DEFICIT ACCOUNT.....		<u>1,377,692.45</u>
		<u>\$104,987,349.79</u>

PROPERTIES

of Ontario in trust for the Province of Ontario

Statement No. 3

DECEMBER 31, 1950

LIABILITIES AND RESERVES

LONG TERM LIABILITIES (at par of exchange):

Funded debt	\$ 68,369,000.00	
Advances from the Province of Ontario	4,592,359.40	
		\$ 72,961,359.40

CURRENT LIABILITIES:

The Hydro-Electric Power Commission of Ontario—current account with Southern Ontario and Thunder Bay Systems	\$ 2,814,898.74	
Consumers' deposits	2,027,126.37	
Debenture interest accrued	411,039.29	
Miscellaneous accruals	65,506.55	
		\$ 5,318,570.95

GENERAL RESERVES:

Contingencies and obsolescence	3,295,370.25
--------------------------------------	--------------

SINKING FUND RESERVE:

Represented by—

Funded debt and provincial advances retired through sinking funds	\$ 21,997,572.60	
Sinking fund investments	1,414,476.59	
		23,412,049.19
		<u>\$104,987,349.79</u>

Auditors' Report

We have examined the balance sheet of the Northern Ontario Properties held and operated by The Hydro-Electric Power Commission of Ontario in trust for the Province of Ontario as at December 31, 1950 and the related statements of operations and deficit for the fourteen-month period ended on that date. In connection therewith we made a general review of the accounting methods and, without making a detailed audit of the transactions, examined or tested the accounting records of the Commission and other supporting evidence by methods and to the extent we deemed appropriate. We received all the information and explanations we required from its officers and employees.

We report that in our opinion the above balance sheet and the statements of operations and deficit have been drawn up so as to exhibit a true and correct view of the state of affairs of the Northern Ontario Properties operated by the Commission at December 31, 1950 and of the results of their operations for the fourteen-month period ended on that date, according to the best of our information and the explanations given us and as shown by the books of the Commission.

CLARKSON, GORDON & CO.

Chartered Accountants.

NORTHERN ONTARIO PROPERTIES

Statement No. 4

Held and operated by The Hydro-Electric Power Commission of Ontario
in trust for the Province of Ontario

STATEMENT OF OPERATIONS

For the fourteen-month period ended December 31, 1950

	Northern Ontario Properties	Rural Power District	Total
REVENUE:	\$	\$	\$
Power sold to companies, municipalities and other customers.....	9,359,062.16	835,140.47	10,194,202.63
COST OF OPERATION:			
Power purchased.....	771,763.96	15,462.99	787,226.95
Operating, maintenance and administrative expenses.....	4,251,417.08	474,165.50	4,725,582.58
Interest (including interest on funded debt and reserves less interest earned on investments).....	3,035,792.07	155,552.91	3,191,344.98
Provision for depreciation.....	1,065,054.04	84,401.68	1,149,455.72
Provision for sinking fund.....	931,034.19	47,780.55	978,814.74
Provision for contingencies and obsolescence.....	580,073.17	32,035.61	612,108.78
Cost of power supplied to Rural Power District by system.....	327,865.91	327,865.91	.....
	10,307,268.60	1,137,265.15	11,444,533.75
NET Loss on operations for 14-month period.....	948,206.44	302,124.68	1,250,331.12

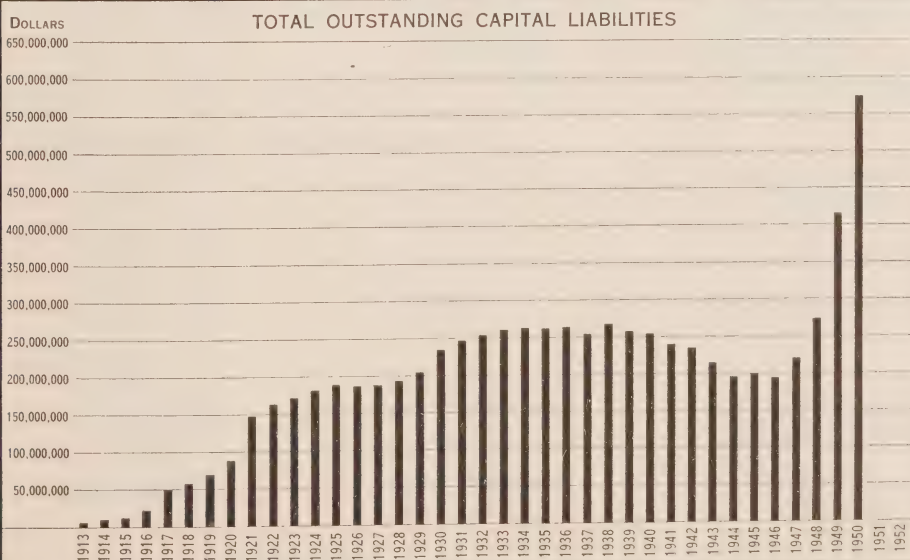
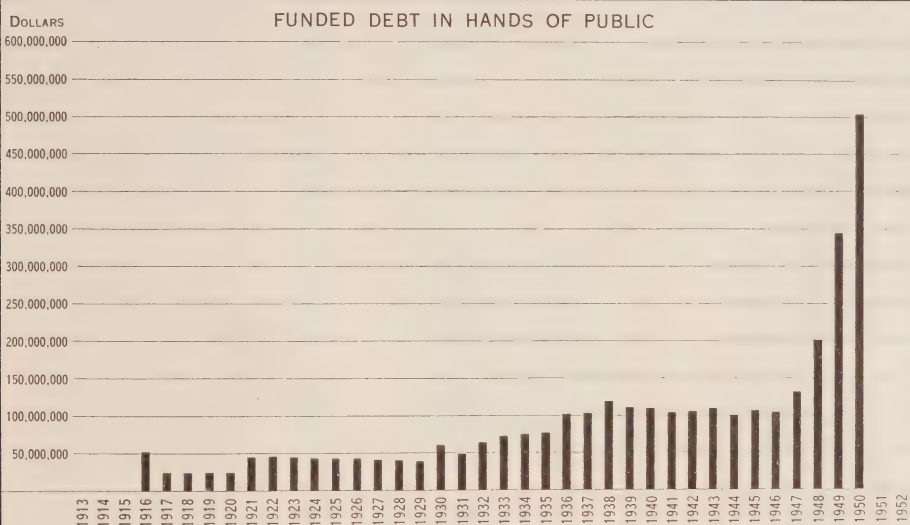
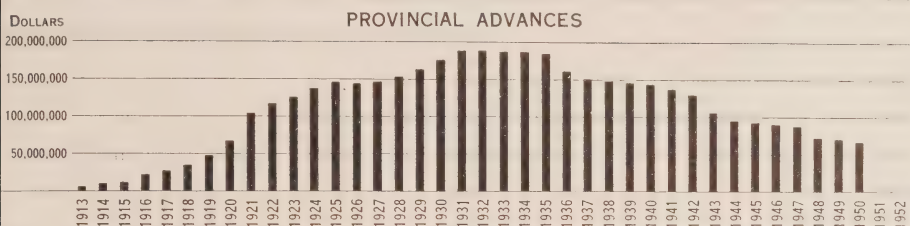
Statement of Deficit Account

For the fourteen-month period ended December 31, 1950

Balance at debit November 1, 1949.....	\$ 127,361.33
Net loss on operations for 14-month period ended December 31, 1950.....	1,250,331.12
Balance at debit, December 31, 1950.....	\$1,377,692.45

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

PROVINCIAL ADVANCES AND FUNDED DEBT



THE HYDRO-ELECTRIC POWER

FUNDED DEBT AS AT

Guaranteed as to principal and interest by the

Date of maturity	Callable at par on or after	Date of issue	Interest rate
			per cent
May 1, 1951/52.....	.....	May 1, 1942	3
Feb. 1, 1951.....	.....	Feb. 1, 1943	3
Jan. 1, 1953.....	Jan. 1, 1951†	Jan. 1, 1943	3
Nov. 1, 1953.....	.....	Nov. 1, 1948	2½
July 15, 1954.....	.....	July 15, 1949	2½
Nov. 1, 1954.....	.....	May 1, 1950	2½
April 1, 1956.....	.....	April 1, 1947	2
Aug. 1, 1957.....	.....	Aug. 1, 1917	4
June 1, 1958.....	.....	June 1, 1918	4
Dec. 1, 1958.....	.....	Dec. 1, 1918	4
Jan. 1, 1960.....	Jan. 1, 1955	Jan. 1, 1945	3
Mar. 1, 1963.....	Mar. 1, 1961	Mar. 1, 1948	3
July 2, 1964.....	July 2, 1960	July 2, 1948	3
Dec. 15, 1965.....	Dec. 15, 1963	Dec. 15, 1948	3
April 1, 1967.....	April 1, 1964	April 1, 1947	2¾
April 1, 1967.....	April 1, 1965	April 1, 1949	3
Jan. 15, 1968.....	Jan. 15, 1966	July 15, 1949	3
Oct. 1, 1968.....	Oct. 1, 1965	Oct. 1, 1947	2¾
Nov. 1, 1969.....	Nov. 1, 1967	Nov. 1, 1949	3
Jan. 1, 1970.....	.....	Jan. 1, 1930	4¾
April 1, 1970.....	April 1, 1968	April 1, 1950	3
June 1, 1971.....	June 1, 1961	June 1, 1946	2¾
June 15, 1973.....	June 15, 1971	June 15, 1950	3
Total Funded Debt (at par of exchange).....			

Summary of Changes in Funded Debt during

Outstanding at October 31, 1949.....	.....
Less redemptions during period.....	.....
Add new bond issues during period.....	.....
Outstanding at December 31, 1950.....	.....

Payable in the

Canadian.....	.....
United States.....	.....
Canadian, United States or Sterling.....	.....

*See heading.

†Callable at 101.

COMMISSION OF ONTARIO

Statement No. 5

DECEMBER 31, 1950

Province of Ontario (except issues marked *)

Principal outstanding December 31, 1950

Southern Ontario and Thunder Bay Systems	Northern Ontario Properties	Total
\$	\$	\$
500,000.00	1,500,000.00	2,000,000.00
6,000,000.00	.....	6,000,000.00
5,000,000.00\$	.....	5,000,000.00\$
10,000,000.00*	.....	10,000,000.00*
5,000,000.00	.....	5,000,000.00
15,000,000.00*	.....	15,000,000.00*
5,745,694.00	4,254,306.00	10,000,000.00
8,000,000.00‡	.....	8,000,000.00‡
200,000.00	.....	200,000.00
100,000.00	.....	100,000.00
.....	7,500,000.00	7,500,000.00
30,994,000.00	3,506,000.00	34,500,000.00
34,000,000.00	6,000,000.00	40,000,000.00
45,000,000.00	.....	45,000,000.00
13,064,306.00	1,835,694.00	14,900,000.00
33,000,000.00	11,700,000.00	44,700,000.00
37,000,000.00	7,000,000.00	44,000,000.00
17,500,000.00	2,200,000.00	19,700,000.00
38,000,000.00	11,800,000.00	49,800,000.00
11,864,000.00	.....	11,864,000.00
51,500,000.00	3,400,000.00	54,900,000.00
15,240,000.00	4,673,000.00	19,913,000.00
52,000,000.00	3,000,000.00	55,000,000.00
434,708,000.00	68,369,000.00	503,077,000.00

fourteen-month period ended December 31, 1950

\$287,464,000.00	\$ 58,200,000.00	\$345,664,000.00
9,256,000.00	8,331,000.00	17,587,000.00
278,208,000.00	49,869,000.00	328,077,000.00
156,500,000.00	18,500,000.00	175,000,000.00
434,708,000.00	68,369,000.00	503,077,000.00

following currencies:

\$421,708,000.00	\$ 68,369,000.00	\$490,077,000.00
5,000,000.00\$	.....	5,000,000.00\$
8,000,000.00‡	.....	8,000,000.00‡
434,708,000.00	68,369,000.00	503,077,000.00

THE HYDRO-ELECTRIC POWER

ADVANCES FROM THE PROVINCE OF

Portions of Province of Ontario bonds

Date of Maturity	Description	Interest rate
		per cent
December 1, 1951-1955.....	Serial bonds	4½
January 15, 1951-1957.....	Serial bonds	4½
November 1, 1951-1957.....	Serial bonds	4½
May 15, 1951-1968.....	Annuity bonds	4
May 15, 1951-1970.....	Annuity bonds	4½
January 15, 1951-1971.....	Annuity bonds	4½
June 1, 1951-1971.....	Annuity bonds	4
April 1, 1952.....	Bonds	5
May 1, 1959.....	Bonds	5
December 2, 1960.....	Bonds	5
Total advances.....		

Summary of changes in advances from Province of

Balance of advances at October 31, 1949.....	
Less repaid during period.....	
Balance of advances at December 31, 1950.....	

Payable in the

Canadian or United States.....	
Canadian, United States, or Sterling.....	

COMMISSION OF ONTARIO

Statement No. 6

ONTARIO AS AT DECEMBER 31, 1950

issued for the purposes of the Commission

Balance of advances outstanding December 31, 1950

Southern Ontario and Thunder Bay Systems	Northern Ontario Properties	Total
\$	\$	\$
948,635.52	4,895.08	953,530.60
1,646,729.12	4,673.92	1,651,403.04
2,618,014.99	7,432.52	2,625,447.51
8,034,685.80	363,192.86	8,397,878.66
7,465,540.65	366,016.07	7,831,556.72
3,644,572.49	517,381.54	4,161,954.03
4,851,143.70	1,039,075.70	5,890,219.40
8,713,226.28§	4,799.73§	8,718,026.01§
12,261,016.44	1,197,907.71	13,458,924.15
13,007,118.01	1,086,984.27	14,094,102.28
63,190,683.00	4,592,359.40	67,783,042.40

Ontario during fourteen-month period ended December 31, 1950

\$ 66,341,912.78	\$ 4,786,463.54	\$ 71,128,376.32
3,151,229.78	194,104.14	3,345,333.92
63,190,683.00	4,592,359.40	67,783,042.40

following currencies:

\$ 8,713,226.28§	\$ 4,799.73§	\$ 8,718,026.01§
54,477,456.72	4,587,559.67	59,065,016.39
63,190,683.00	4,592,359.40	67,783,042.40

SECTION III

THE COMMISSION AND ITS CUSTOMERS

Municipal Activities and Load Conditions Reviewed—Regional Reports—Growth of Municipal Electrical Utilities—Frequency Standardization—Service to Industries—Lighting Service—Electrical Inspection

AT December 31, 1950, the Commission was supplying electric power to 1,132 municipalities in the Province under provisions of The Power Commission Act.

The municipalities served may be divided into five groups according to the different methods used to supply them with electric service:

CLASSIFICATION OF MUNICIPALITIES SERVED BY
THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Method of serving	Number served
1. Under cost contract to municipal utilities.....	314
2. Directly to individual customers through Commission-owned and -operated properties.....	25
3. Under fixed-rate contract not subject to annual adjustment but otherwise as in Group 1.....	9
4. Indirectly through Group 1 municipalities e.g. The Town of Leaside receives power through Toronto Hydro-Electric System.....	10
5. Through rural power districts (mainly township areas but certain towns, villages, police villages, and improvement districts included through special provision).....	774
Total Municipalities Served.....	1,132

TYPES OF MUNICIPALITIES SERVED

Cities.....	27
Towns.....	116
Villages.....	147
Police Villages.....	184
Townships—Organized and Unorganized.....	639
Improvement Districts.....	9
Mining Townsites.....	10
Total.....	1,132

The expansion of business in large urban and suburban municipalities required station extensions and capital expenditures that necessitated raising funds by the issue of debentures. Numerous requests from municipalities for approval of such projects and for assent to the issue of debentures were dealt with by the Commission.

Increased operating costs made it necessary for 147 municipalities to request approval for an increase in their retail rates. Each request was considered individually to determine the increase required for efficient operation of the local system.

Load Increase—Municipalities

The following table indicates the large increase in loads supplied to cost municipalities in the Southern Ontario and Thunder Bay Systems:

Comparative Data re Municipal Loads
Average Kilowatts Billed

	1949	1950	Increase	Per cent increase
Cities.....	843,313.4	973,084.5	129,771.1	15.4
Voted Areas.....	86,458.2	117,070.2	30,612.0	35.4
Towns.....	178,872.6	204,334.1	25,461.5	14.2
Villages.....	50,007.5	58,476.0	8,468.5	16.9
Police Villages.....	8,542.4	9,930.4	1,388.0	16.2
Total.....	1,167,194.1	1,362,895.2	195,701.1	16.8

Increase or Decrease in Average Load

	Increase	Decrease	No change	Total
Cities.....	25	.....	.....	25
Voted Areas.....	9	.....	.....	9
Towns.....	79	2	.....	81
Villages.....	145	3	1	149
Police Villages.....	47	2	1	50
Total.....	305 or 97.1 per cent	7	2	314

REPORTS FROM THE REGIONS RELATING TO MUNICIPAL ACTIVITIES

The Commission acts in an advisory capacity to those municipalities with which it has contracts and through its nine regional offices, situated throughout the Province, it gives assistance to municipal officials in connection with their administration and engineering problems.

Under the terms of The Power Commission Act, all rate adjustments are approved by the Commission and the regional offices assisted the local commissions in the many rate revisions that arose from increased operating costs.

The following gives brief particulars of some of the more important municipal activities of each region.

WESTERN REGION

Comber—Extensive overhaul of the distribution system during 1950 was almost completed by the end of the year.

Dresden—Approval was obtained for an expenditure of \$27,000 to cover the cost of a new office, warehouse and garage, which will be ready for occupancy about March 1951.

Lambeth—The distribution system was overhauled and extended.

London—The downtown underground network was extended about two blocks at the time of frequency standardization in that area. Three new 3,000-kva unit municipal stations were installed in residential areas in preparation for frequency standardization.

Sarnia—Approval was obtained for an expenditure of \$35,000 to cover the cost of alterations and extensions to the offices.

Tillsonburg—Approval was obtained for a debenture issue of \$120,000 to cover the cost of a dual-frequency 2,000-kw municipal station, tie-lines, feeders, and plant expansion.

West Lorne—On May 5, 1950 a new office and service centre was officially opened to provide facilities for the Public Utilities Commission and the Rural Operating Area.

WEST CENTRAL REGION

Brantford—Owing to the large increase in the number of customers and loads, the work for the year was devoted to the installation of increased transformer capacity and lines. The first underground transformer-vault for a 120/208-volt, 3-phase, 4-wire supply, with a capacity of 250 kva, was completed.

Brantford Township—A new 2,000/3,600-kva transformer to replace the 1,000-kva one in use at Municipal Station No. 1, and an extra feeder cell to existing low-voltage switchgear, were installed.

Galt—Three dual-frequency municipal stations were completed and put into service during the year. Electric service was supplied to approximately 200 new homes and at the end of the year approximately 130 new customers were added to the system by the annexation of some 800 acres of North Dumfries Township. The high-voltage switching equipment in Municipal Station No. 1 was changed from 13.2 to 26.4 kv in preparation for frequency standardization.

Goderich—The building to house the switching equipment at Municipal Station No. 2 was completed. Several distribution primary circuits were rebuilt in order to co-ordinate the operation of Municipal Stations No. 1 and No. 2.

Hespeler—Primary and secondary lines were rebuilt and larger conductors installed at the same time that the street lighting was changed from series to multiple system.

Kitchener—Several 13.2-kv lines were erected as station feeders and tie-lines. Two concrete transformer-vaults were added to the underground system.

Paris—The transformer capacity in Municipal Station No. 1 was increased by the replacement of the existing transformer by a 2,000/3,600-kva dual-frequency transformer.

Simcoe—Municipal Station No. 2 was completed and put into service. This is an outdoor dual-frequency unit of 1,500/2,700-kva capacity located in the north part of the municipality. A 26.4-kv transmission line was built to supply the station.

NIAGARA REGION

Merritton—A new office building owned by the Merritton Hydro-Electric Commission was completed and officially opened on April 26, 1950.

Niagara Falls—A new 600-kva municipal station was placed in service as a stand-by for the municipal pumping station.

Port Dalhousie—A control system for the operation of flat-rate water-heaters was placed in operation.

Queenston—In order to improve voltage regulation, the primary distribution system was completely overhauled.

St. Catharines—To meet the rapidly increasing demand, Welland, Vale, and Queen East Municipal Stations were placed in service.

Stamford Township—A new dual-frequency municipal station was placed in service on Margaret Street.

TORONTO REGION

Agincourt—Frequency standardization of the municipal system was completed in December 1950, and the capacity of the distributing station was increased to 1,800 kva.

Aurora—A new distributing station of 3,000-kva capacity was installed to supply the municipality and the surrounding rural area. Frequency standardization of the local system was completed in the fall of 1950.

East York Township—Frequency standardization of the system was completed in the early summer of 1950. Owing to load growth Municipal Station No. 7 was increased in capacity from 1,875 kva to 3,000 kva.

Etobicoke Township—A new municipal station was constructed in the Islington-Rosethorn area. A lot was purchased to provide for a new office building, stores, and garage facilities.

Forest Hill—A new municipal station of 3,000-kva capacity was placed in service in December 1950.

Georgetown—A control system for some 250 flat-rate water-heaters was installed during the year.

Newmarket—Frequency standardization of the local system was completed in October 1950. A new distributing station of 2,000-kva capacity was installed in the north end of the municipality to supply the rapidly increasing power demands.

New Toronto—A temporary distributing station was placed in service to supply 60-cycle power for a number of industrial plants and new power customers.

North York Township—Three new municipal stations were installed to supply the rapidly growing load in the township. There were approximately 5,300 new services installed in 1950.

Port Credit—A vote taken on the question of forming a public utility commission was carried by a large majority and the first commission will be elected in 1951.

Richmond Hill—Frequency standardization of the municipal system was completed in the fall of 1951.

Scarborough Township—Frequency standardization of the local system was completed in the spring of 1950. A new 3,000-kva distributing station was installed in the Danforth Avenue section.

Stouffville—Frequency standardization of the local system was completed in December and a new distributing station of 1,000-kva capacity was placed in service.

Sutton—Frequency standardization of the local system was completed in the summer of 1950.

Toronto—A new 60-cycle system was initiated from Scarborough Fuel-Electric Generating Station to Gerrard Transformer Station. The supply for the Toronto Transportation Commission Beaches and Sumach Stations was changed to 60 cycle.

Work was commenced on a new 110-kv transformer station in the westerly part of the downtown area, to be known as the Toronto-John Transformer Station.

In keeping with the improvement of University Avenue, overhead lighting circuits were placed underground and new, concrete, street-lighting pillars with 750-watt luminaires were installed.

Removal of all overhead heavy lines and poles was started on College Street.

Toronto Township—Arrangements were completed for the purchase of the Cooksville Transformer Station site as a location for a new office building and storage facilities.

Weston—A pilot-wire, flat-rate water-heater control system was completed and a debenture issue of \$62,000 was approved to provide for a second municipal station in the eastern section of the town.

York Township—A modern stores and garage building was completed and officially opened in October 1950.

GEORGIAN BAY REGION

Alliston—The transmission line supplying Alliston was changed from 22-kv to 44-kv operation and the distributing station enlarged from 600 kva to 1,000 kva.

Barrie—Construction was started on a new Public Utilities Commission office building at an estimated cost of \$116,000.

Beeton—The capacity of the municipal station was increased from 150 to 300 kva and the voltage raised from 22 to 44 kv.

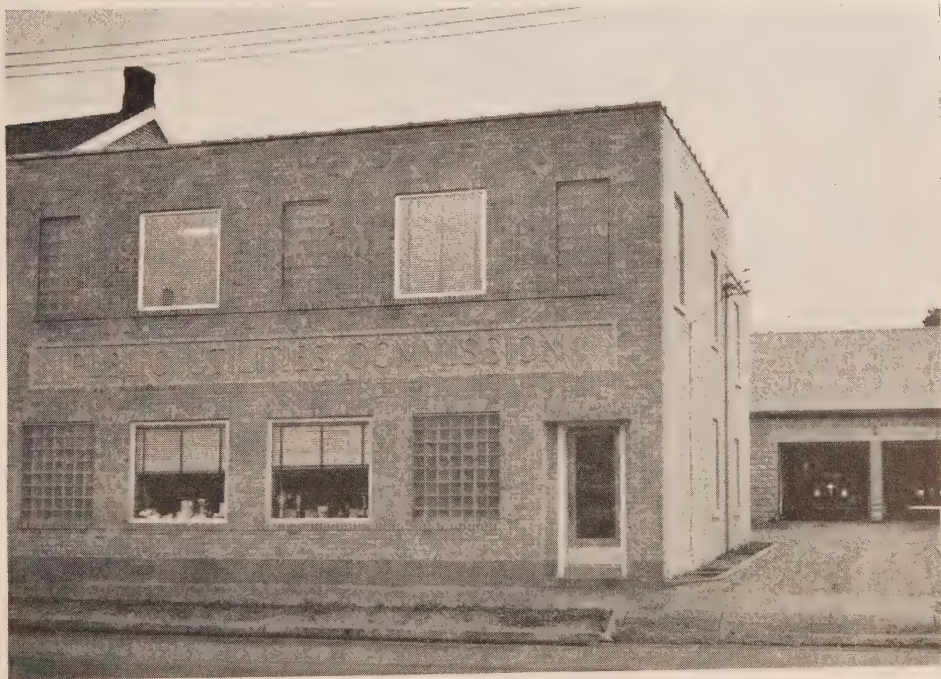
Burks Falls—Under the terms of a cost contract between the Commission and the municipality of Burks Falls, power was first delivered on February 1, 1950.

Cookstown—The capacity of the distributing station was increased from 150 to 300 kva and the voltage raised from 22 to 44 kv.

Creemore—Overhaul of the distribution system was completed.

Erin—The municipality purchased the local distribution system from the Commission and commenced operating as a cost municipality as of May 1, 1950.

Hanover—The Public Utilities Commission completed renovation of its existing building to provide a modern office, workshop, and stores facilities.



HANOVER—Newly renovated and modernized premises of Public Utilities Commission

Midland—Work was commenced on a new 3,000-kva municipal station. The 22-kv lines within the municipality were overhauled and reinsulated for 44-kv operation.

Port McNicoll—The distribution system was extended to supply a summer subdivision known as Paradise Point.

Tottenham—The 200-kva distributing station was dismantled. Power is now being provided from a new joint municipal and rural 600-kva station situated a mile north of the village limits. The voltage was increased from 22 to 44 kv.

Wingham—The distribution system was changed from 2,300-volt delta to 4,000/2,300-volt Y operation.

EAST CENTRAL REGION

Bancroft—Repairs were carried out on the dam and head-works of the Bancroft Hydro-Electric Commission's generating station.

Cobourg—The local distribution system voltage was changed from 2,300 to 4,160 volts.

Havelock—The entire distribution system was rebuilt during the year.

Kingston—A new Municipal Station No. 3 with 3,000-kva capacity was built to meet the increasing loads in the municipality.

Oshawa—Municipal Stations No. 2 and No. 4 were placed in service during the year to serve increasing loads in the municipality.

Wellington—Most of the distribution system was rebuilt. The primary circuits were removed from Main Street and modern street lighting was provided.

EASTERN REGION

Apple Hill—The distributing station was abandoned and the distribution system was rebuilt for operation at 8 kv to conform to the new supply from Martintown Distributing Station.

Athens—Approval has been obtained for an expenditure to cover complete overhaul of the distribution system.

Brockville—Municipal Station No. 2 was placed in service to supply the northern section of the town.

Cobden—The distribution voltage in the village was being changed from 2,300 to 6,900 volts. The need for the local distributing station will eventually be eliminated by this change.

Kemptville—The capacity of the distributing station was increased in order to provide power for new industries.

Merrickville—The municipality purchased the electrical distribution system from the Commission and commenced operating as a cost municipality on July 1, 1950.

Ottawa—A new transformer station was installed temporarily at Overbrook in order to supply new municipal stations in the enlarged city area. The transfer of customers to the new supply authority made necessary by annexation was carried out.

Prescott—Overhaul of the distribution system was completed providing for distribution at 4,000 volts.

Williamsburg—The distribution system was completely rebuilt.

NORTHEASTERN REGION

Cache Bay—Power was first delivered to the municipality under the terms of a contract on December 1, 1950. A new distribution system was installed.

Capreol—Transformers have been ordered to increase the municipal station capacity from 450 kva to 1,500 kva.

Englehart—The distribution system was overhauled and changed from 2,300 volts to 4,000 volts.

Latchford—A new distribution system was installed and power was first delivered under a contract on April 15, 1950.

Improvement District of McGarry (Virginiatown)—The distribution system was extended to serve a new housing and business subdivision.

Powassan—The distribution system was rebuilt for 12,000/6,900-volt operation and the new supply was connected in December 1950.

South Porcupine—The distributing station capacity was increased from 1,500 kva to 2,000 kva, and the distribution system was changed for 4,000-volt operation.

Sturgeon Falls—The electors of Sturgeon Falls voted in favor of obtaining power from the Commission and authorized the Commission to install a distributing station and to rebuild the distribution system.

NORTHWESTERN REGION

Improvement District of Atikokan—The distributing station was increased in capacity from 450 kva to 1,000 kva.

Fort William—Work was started on the installation of a second unit-type municipal station to have an ultimate capacity of 6,000 kva.

Port Arthur—The second and third unit-type municipal stations of 3,000-kva capacity each were installed during 1950, making a total capacity of 22,200 kva stepping down to 4,000-volt distribution. In addition, a 2,250-kva transformer bank was installed at Current River Generating Station to permit a tie between the station and the 22,000-volt lines.

Schreiber Township—During the year, a 2-mile extension was built from the main section of Schreiber to Walker's Lake, a summer resort mainly consisting of cottages.

GROWTH OF MUNICIPAL ELECTRICAL UTILITIES

The annual growth in revenue and in kilowatt-hour consumption and the reductions in the average cost per kilowatt-hour from 1914 to 1950 for all domestic and commercial customers, are shown in the accompanying tables and graphs. Included are the figures for all the municipal utilities listed in Statement "D" of Section VIII of this Report and also those municipal utilities owned and operated by The Hydro-Electric Power Commission of Ontario.

In previous issues of the Report the statistics recorded and illustrated have covered the period ending with the year prior to that covered by the rest of the Report. This year the information for 1950 was available and is therefore included.

The tables give complete information for "all urban municipalities combined" for both domestic and commercial services; the graphs show only increased use and decreased cost for domestic and commercial services but

GROWTH IN HYDRO DOMESTIC SERVICE 1914 TO 1950
ALL URBAN MUNICIPALITIES COMBINED

Year	Number of municipalities	Annual revenue	Kilowatt-hours consumed	Number of customers	Average cost per kwh	Average monthly bill	Average monthly consumption
		\$			cents	\$	kwh
1913				49,200			
1914	49	730,168	14,359,100	64,866	5.08	1.06	21
1915	.....	854,748	20,935,000	85,865	4.08	0.92	22
1916	.....	992,628	29,359,900	108,364	3.42	0.82	24
1917	123	1,340,855	41,930,200	131,313	3.20	0.91	29
1918	.....	1,583,677	52,731,700	146,885	3.00	0.92	31
1919	.....	1,933,577	68,409,100	169,455	2.82	1.01	35
1920	166	2,514,658	98,211,000	193,892	2.56	1.15	45
1921	.....	3,086,051	124,619,800	219,465	2.48	1.24	50
1922	.....	3,761,172	166,182,000	245,577	2.26	1.34	59
1923	206	4,955,420	242,926,600	286,852	2.04	1.54	76
1924	.....	5,548,835	292,608,400	303,787	1.89	1.56	80
1925	.....	6,414,134	342,356,700	326,307	1.85	1.67	90
1926	242	7,353,394	404,722,959	349,882	1.81	1.79	98
1927	267	8,497,190	469,851,690	387,573	1.80	1.87	103
1928	268	9,411,812	551,010,035	408,071	1.71	1.97	115
1929	273	10,256,860	612,141,722	424,419	1.67	2.05	122
1930	273	10,752,720	671,028,310	433,260	1.61	2.09	130
1931	289	11,226,091	704,784,457	447,466	1.59	2.12	133
1932	298	11,676,222	740,900,418	452,615	1.57	2.15	136
1933	300	11,639,178	742,195,402	460,878	1.57	2.10	134
1934	300	12,078,069	797,532,709	463,913	1.51	2.17	143
1935	302	12,393,536	826,972,873	471,265	1.50	2.19	146
1936	302	12,922,466	881,972,324	482,557	1.47	2.23	152
1937	305	12,680,921	926,350,703	490,140	1.37	2.16	157
1938	312	12,880,180	1,003,489,453	507,132	1.28	2.12	165
1939	317	13,300,898	1,056,310,109	518,123	1.26	2.14	170
1940	317	13,905,290	1,115,888,837	531,514	1.25	2.18	175
1941	320	14,452,796	1,169,273,964	546,613	1.24	2.20	178
1942	323	15,022,931	1,224,195,712	559,605	1.23	2.24	182
1943	323	15,069,547	1,266,930,625	570,470	1.19	2.20	185
1944	323	15,528,445	1,348,099,019	579,890	1.15	2.23	194
1945	340	16,053,818	1,494,258,124	608,905	1.07	2.20	205
1946	339	17,526,854	1,704,125,246	628,118	1.03	2.32	226
1947	339	18,937,674	1,870,974,898	648,282	1.01	2.43	240
1948	341	20,295,932	2,032,922,876	671,914	0.99	2.51	252
1949	342	21,947,915	2,224,473,480	706,294	0.99	2.59	262
1950	346	29,064,176	2,805,149,825	767,286	1.04	3.15	304

give these data for cities, towns and villages as well as for "all urban municipalities combined." Data relating to the larger voted areas where the population exceeds 10,000 are included with data for cities.

Financial Progress

The consolidated balance sheet, published in Section VIII of this Report, shows a total plant value in electrical utilities of \$156,148,063.75 against which is a debenture balance debt of \$14,069,133.05. However, some municipalities are accumulating a sinking fund to pay for debentures at maturity and at the end of 1950 this fund amounted to \$592,491.22. If this sinking fund is deducted from the balance of the debenture debt, the actual unpaid debenture debt would be \$13,476,641.83 or 8.6 per cent of the original value of the distribution systems.

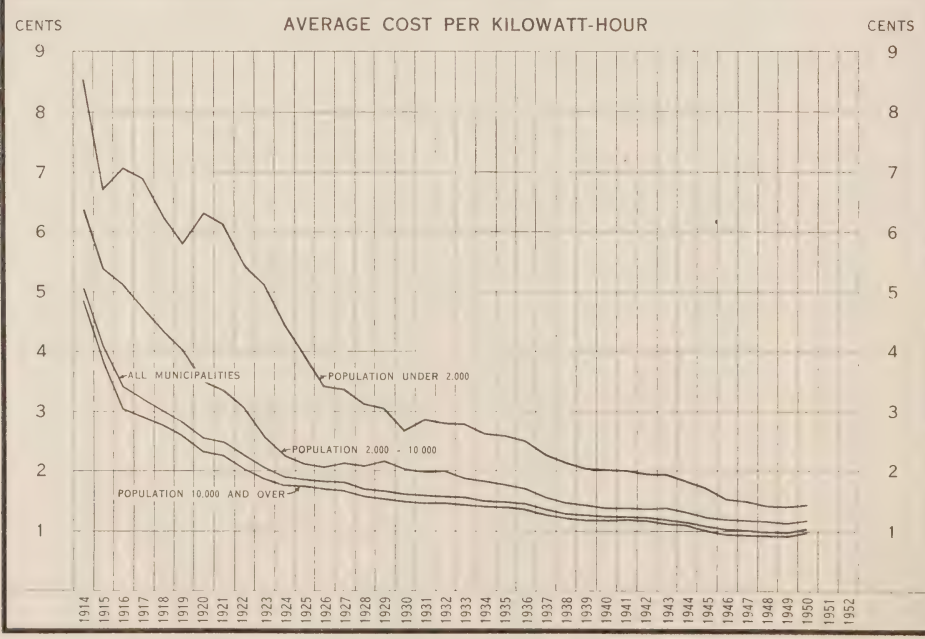
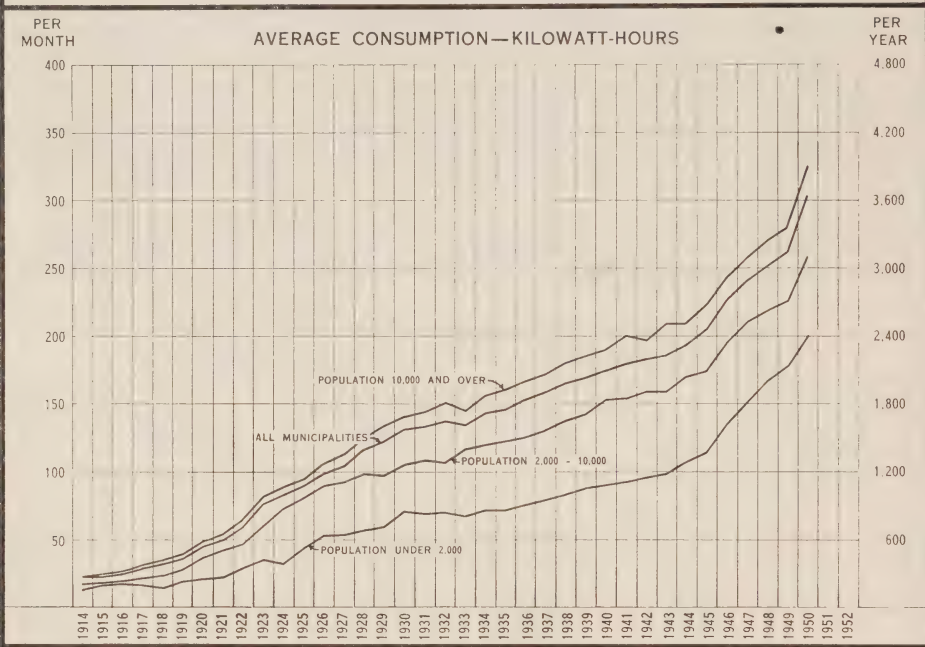
Automatic reduction in the debenture debt, due to the annual principal or sinking fund payments being provided for out of revenue, and the remark-

GROWTH IN HYDRO COMMERCIAL LIGHT SERVICE 1914 TO 1950—ALL URBAN MUNICIPALITIES COMBINED

Year	Number of municipalities	Annual revenue	Kilowatt-hours consumed	Number of customers	Average cost per kwh	Average monthly bill	Average monthly consumption
		\$			cents	\$	kwh
1913				13,113			
1914	43	624,781	15,669,700	15,657	4.00	3.63	91
1915		649,585	21,444,900	19,324	3.03	2.95	97
1916		753,784	26,866,000	22,216	2.82	2.87	102
1917	123	860,475	31,983,500	27,453	2.69	2.77	103
1918		947,769	35,053,500	29,570	2.70	2.70	99
1919		1,158,406	47,087,000	33,307	2.46	3.03	123
1920	166	1,477,963	59,336,900	36,496	2.50	3.51	140
1921		1,818,211	68,863,500	39,333	2.64	3.98	151
1922		2,143,981	81,216,000	43,098	2.64	4.26	162
1923	206	2,613,257	105,482,600	46,383	2.46	4.80	196
1924		2,907,427	120,474,800	50,137	2.41	4.99	207
1925		3,836,946	151,555,200	56,018	2.54	5.98	235
1926	242	4,176,595	171,797,014	58,444	2.43	6.08	250
1927	267	4,823,781	200,606,137	64,039	2.40	6.39	267
1928	268	5,436,795	234,526,831	68,013	2.32	6.66	287
1929	273	5,893,217	272,343,330	70,106	2.16	7.11	329
1930	273	6,094,871	287,838,022	71,873	2.11	7.15	338
1931	289	6,377,520	305,121,640	75,286	2.09	7.20	344
1932	298	6,402,882	306,596,543	75,705	2.09	7.05	338
1933	300	6,149,792	292,335,489	75,443	2.10	6.79	323
1934	300	6,344,921	306,632,722	75,016	2.07	7.05	341
1935	302	6,601,461	327,413,421	74,884	2.02	7.35	364
1936	302	7,001,893	355,235,553	75,878	1.97	7.69	390
1937	305	6,676,968	393,067,119	76,620	1.70	7.26	428
1938	312	6,909,454	427,020,841	78,021	1.62	7.38	456
1939	317	7,256,262	459,635,100	78,949	1.58	7.66	485
1940	317	7,785,024	508,986,422	79,512	1.53	8.16	533
1941	320	7,991,091	540,995,581	79,824	1.48	8.34	565
1942	323	7,695,928	531,680,336	77,326	1.45	8.29	573
1943	323	6,787,241	472,129,977	76,194	1.44	7.42	516
1944	323	7,298,848	524,905,356	78,256	1.39	7.77	559
1945	340	8,429,573	634,878,480	84,413	1.33	8.32	627
1946	339	9,364,009	725,475,237	89,109	1.29	8.76	679
1947	339	10,277,574	797,642,711	91,926	1.29	9.32	723
1948	341	10,182,051	769,650,340	95,239	1.32	8.91	673
1949	342	10,890,639	819,475,244	98,682	1.33	9.20	692
1950	346	15,231,494	1,080,316,296	107,817	1.41	11.73	832

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

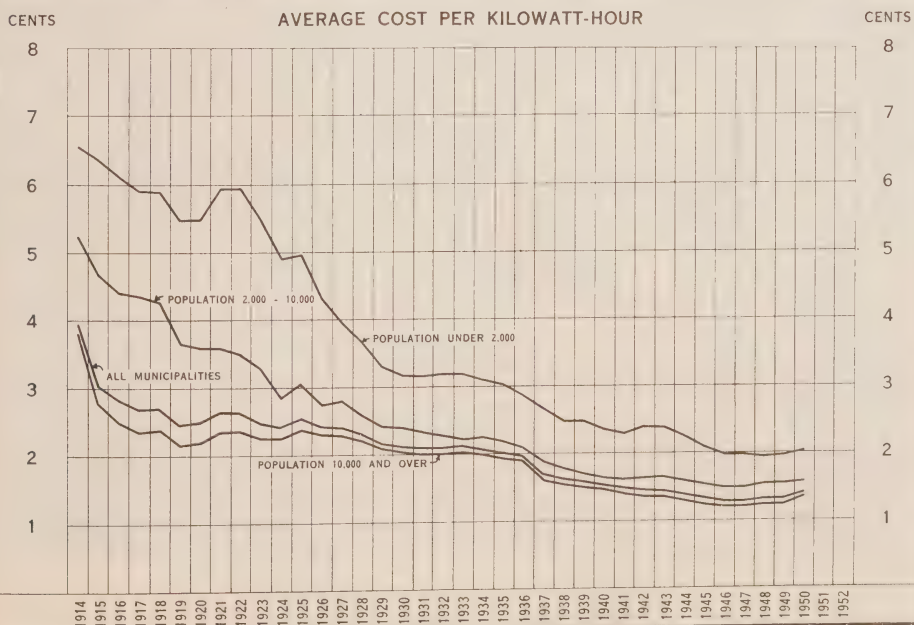
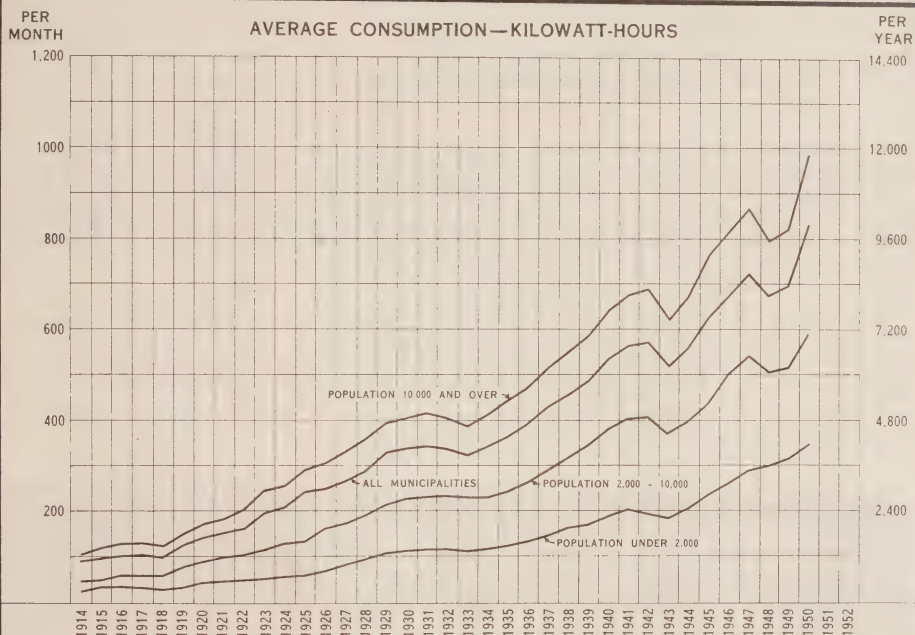
DOMESTIC SERVICE
MUNICIPAL ELECTRICAL UTILITIES



THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

COMMERCIAL LIGHT SERVICE

MUNICIPAL ELECTRICAL UTILITIES



able accumulation of assets reflect a satisfactory financial condition of the electrical utilities generally. Statement "A" of this Report shows the relation of assets to liabilities in municipalities. In 88 per cent of these municipalities the quick assets such as cash, bonds, accounts receivable, and inventories exceed in value the total liabilities, including the debenture balance, and their electrical utilities may fairly be considered as being out of debt.

FREQUENCY STANDARDIZATION

More than 86,000 customers of all classes in the 25-cycle areas of the Commission's Southern Ontario System had their frequency-sensitive appliances and equipment altered for 60-cycle operation by December 31, 1950. During the year, standardization of frequency at 60 cycles in the 25-cycle sectors was carried out at an accelerated pace.

By the end of 1950, a total of 343,020 individual pieces of frequency-sensitive electrical appliances and equipment had been changed over for 78,897 domestic, 6,170 commercial, and 1,016 industrial customers. At the time of the December peak load, there was a total of 139,000 kilowatts of load fed at 60 cycles which would otherwise have been at 25 cycles.



MOBILE CLOCK AND FAN DEPOT

A customer inspects the wide range of 60-cycle clocks available for exchange at a mobile clock and fan depot

Inventories made of customers' electrical equipment indicated that 90.5 per cent of domestic users had washing machines, 61 per cent refrigerators, 39 per cent radio phonographs, 67 per cent electric clocks, and 22 per cent fans. The average customer in the 25-cycle areas has four pieces of frequency-sensitive equipment.

The municipal distribution systems standardized during the fiscal year included Scarborough Township, East York Township, several areas adjacent to the Yonge Street highway north of Toronto, Sarnia, a large part of London, as well as numerous smaller communities in the vicinity of those mentioned.

One of the difficulties that confronted the Commission in its program of frequency standardization during the year was created by the great growth in load on the 25-cycle system. In order to curtail 25-cycle load growth, the Commission has planned to duplicate portions of the present 25-cycle transmission system with 60-cycle lines and stations which can later be used during the normal standardization program. Thus 60-cycle power will be made available for most new loads and expansion of existing loads. The 60-cycle facilities will also enable customers and municipal systems to undertake the changeover of their own plant by using their own staffs or the services of local contractors. It is anticipated that this will effect a substantial saving in over-all standardization costs. At the end of the year the Commission was negotiating with customers and expected to start construction of the first duplicate lines in the spring of 1951.

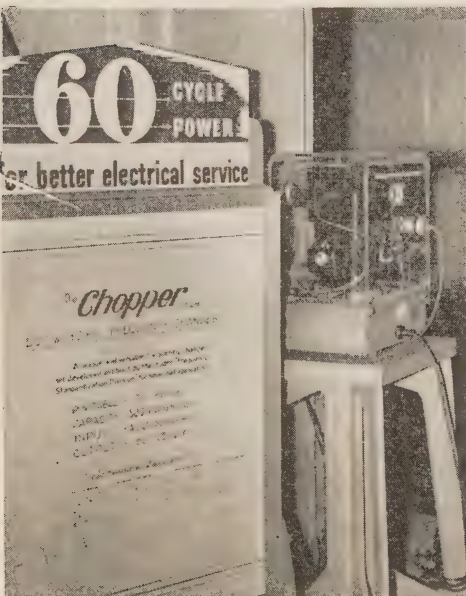
During 1950 the frequency standardization service shop located at the A. W. Manby Service Centre came into full operation. The first task of the shop was the development and assembly of 500-watt chopper-type frequency changers, the use of which is of substantial help in the frequency standardization program. The shop has been established to take care of emergencies, rewind special motors, and establish cost criteria for the conversion work being performed by manufacturers.

The following table summarizes the progress on frequency standardization work in all areas up to December 31, 1950. The figures with asterisks relate to customers who have converted their own equipment.

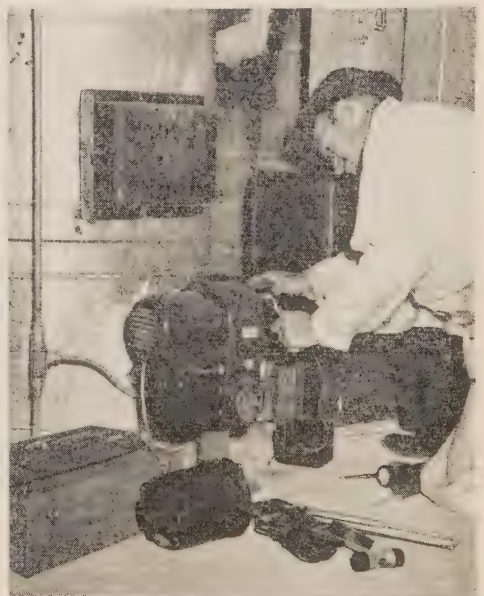
Class	Number of customers		Inventoried			Standardized		
	Estimate	Released for inventory	Cus-tomers	Con-nected hp	Items	Cus-tomers	Con-nected hp	Items
Domestic	214,139	107,568	105,724	.....	362,330	74,542 *4,355	.....	262,546 *9,113
Commercial.....	21,968	10,558	10,269	.....	68,736	6,108 *62	.....	38,846 *252
Power	3,265	2,990	2,362	443,378	153,662	921 *95	94,962 *9,910	30,870 *1,393
Total	239,372	121,116	118,355	443,378	584,728	81,571 *4,512	94,962 *9,910	332,262 *10,758
Grand Total..						86,083	104,872	343,020



SPECIAL DISPLAYS like this at Ontario exhibitions and shows are one phase of the Commission's program to familiarize the public in 25-cycle areas with the frequency standardization project



Left: CHOPPER-TYPE FREQUENCY CHANGER—Developed and built by the Commission for small load application, capacity 500 watts. It is used primarily to convert 60-cycle to 25-cycle power in homes and some stores where alteration of some equipment is impracticable at the time of standardization



Right: CHANGING THE MOTOR of a domestic oil burner

A resume of the Division's operation will explain the headings used in the table. The Frequency Standardization Division estimates the number of customers of all classes in the 25-cycle area whose equipment is to be standardized and detailed system data are compiled by survey of each customer. This information is then released to the contractor who makes an inventory of each customer's equipment and thereby accumulates the total customers, items, and corresponding connected horsepower. These items are processed to determine the materials required, following which the necessary requisitions are placed with the Frequency Standardization Division, which is responsible for having the material on hand prior to the cut-over date. The Division arranges the details of the cut-overs and on each cut-over day the contractor changes the equipment in the homes, offices, and factories to operate at the standard frequency of 60 cycles.

SERVICE TO INDUSTRIES

Industrial power customers who cannot satisfactorily be provided with power by municipal utilities or rural operating areas or are located in unorganized territory are served as direct system customers. Some 200 customers are in this category, including a variety of industries in southern Ontario and mines and paper companies mostly in the northern part of the Province.

The following is a summary of these customers grouped according to the type of industry and showing for each group the sum of the average monthly peak loads during the fiscal year.

Type of industry	No. of customers	Sum of average monthly peak loads kilowatts
Pulp and Paper Mills.....	15	156,785
Mining:		
(a) Gold and Silver.....	72	93,239
(b) Base Metals.....	4	81,363
(c) Non-Metals.....	5	1,847
Quarrying, Cement, Basic Building Materials.....	14	18,552
Steel and Electro-Metallurgical.....	7	182,214
Abrasives and Cyanamid.....	4	133,764
Chemical.....	10	51,319
Grain Elevators and Milling.....	5	8,670
Transportation Services and Communications.....	6	2,920
Government Services and Institutions.....	15	11,613
General Manufacturing.....	36	41,238
Miscellaneous.....	10	62,488

A comparison of the total average monthly peak loads for 1950 with 1949 shows an increase from 777,592 kilowatts to 846,012 kilowatts. Load decreases during the early part of the year were more than offset by increases which coincided with the outbreak of hostilities in Korea and the general deterioration of the international situation. Rapid expansion of the chemical industry, a large consumer of power, and all industries associated with the expanding defence program were predominant factors in the load increase during the latter part of the year.

Several small silver and cobalt mines commenced or resumed operations during 1950 while the producing gold mines showed moderate increases in power consumption.

A policy was adopted in December 1949 whereby the rates to direct system customers would be revised on the expiration of each contract and provision made in the new contract for an annual rate review at the Commission's option, but limiting any rate increase to the percentage increase in the Commission's cost of supplying power to a nearby municipality. This provision was inserted in all new contracts for terms in excess of one year.

As a service to industrial power customers, chiefly in municipalities, 52 plants were surveyed in 1950 and recommendations made regarding power factor correction, selection of equipment, and improved distribution efficiency. These surveys were made in co-operation with the staffs of the local utilities. As the resulting benefits from these surveys are generally reflected in improved operating conditions on the local distribution systems, the number of requests for this service from utility managers is increasing.

LIGHTING SERVICE

During the past year the Commission assisted the Ontario Department of Education in providing adequate lighting in schools and prepared plans and specifications for 453 schools. Recommendations were also made for lighting in offices, public buildings, industrial installations, sports areas, municipal street lighting, and military installations.

In addition, the Lighting Section also co-operated with architects, electrical engineers, and others with a view to providing suitable and adequate lighting for their projects.

ELECTRICAL INSPECTION

During the fiscal year 383,848 permits were issued and 690,089 inspections were made. Because of the continued high degree of activity in construction throughout 1950, the number of permits issued increased by 5.6 per cent and the number of inspections made increased by 10.8 per cent by comparison with 1949. The inspection staff had to be enlarged by 3.7 per cent in consequence.

Because of rising operating costs and with a view to making the inspection service as nearly self-supporting as possible, the schedule of inspection fees in force since 1939 was studied in detail in order to discover those items for which increased charges might reasonably be made. Some minor changes were made in the schedule, the most important of which were as follows:

Increases of from 10 to 25 cents were made in the charges for inspection permits,

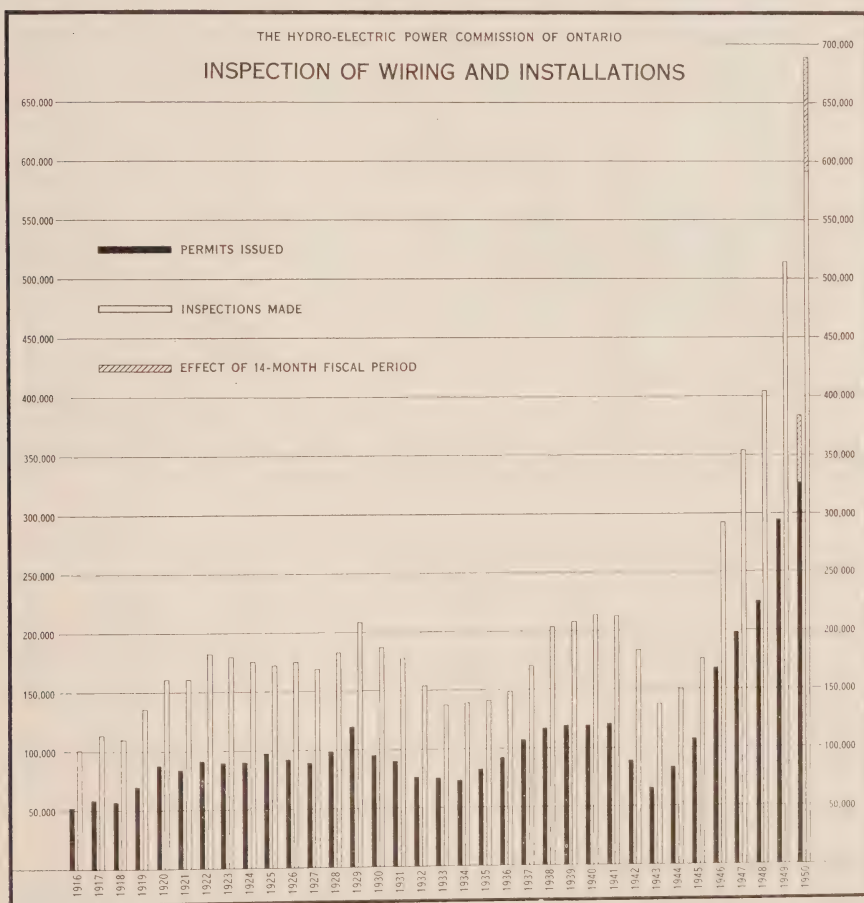
A new section governing the inspection of power panel boards which had formerly been included under lighting panel boards was introduced. The fees for inspecting lighting panel boards were not increased.

The tariffs were given wide public distribution.

It is estimated, assuming the existing volume of business, that the increases in fees will raise revenues by about 10 per cent and cover the cost of the service. The new schedule became effective on November 20, 1950.

Electrical accidents claimed the lives of nine persons in Ontario during 1950. Thirteen fires were attributed directly to electrical causes and other fires may have been of electrical origin.

There was an increase of 15.5 per cent in the number of special inspections of electrical equipment by the Sales Control Section arising from the use of electrical equipment not approved by the Canadian Standards Association.



SECTION IV

RURAL ELECTRICAL SERVICE IN ONTARIO

Record Expansion to Rural Communities—Five-Year Post-War Plan
Completed and Greatly Exceeded—Acceleration of Aggregate
Load Growth—Rates Adjusted to Meet Rising Cost of
Construction

THE Commission's established rural policy of providing a province-wide distribution of electricity at a uniform rate and under similar conditions to each class of rural customer has continued to extend rapidly the benefits of Hydro power to all parts of the Province.

Five-Year Plan Completed

The five-year post-war plan, commenced in 1946, to meet the accumulated demands of the post-war period has now been completed. The program laid out for this five-year period has been greatly exceeded.

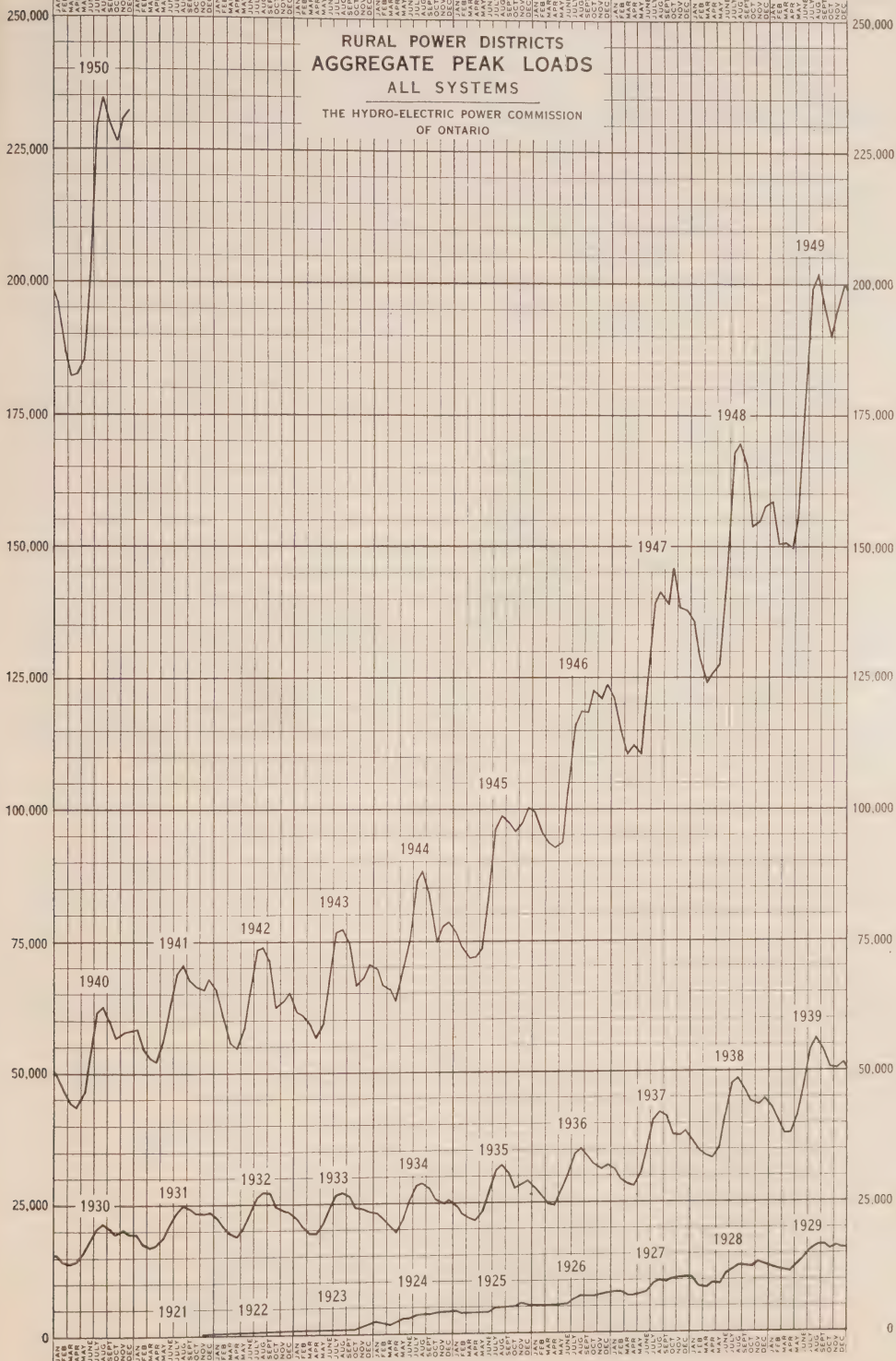
	First year 1946	Second year 1947	Third year 1948	Fourth year 1949	Fifth year 1950	Total five years
MILES OF LINE						
Five-year plan	1,135	2,151	1,532	1,357	1,154	7,329
Constructed	1,188	1,008	3,556	4,738	2,733	13,223
CUSTOMERS TO BE SERVED						
Five-year plan	13,602	13,964	11,180	10,102	9,056	57,904
Actually served	16,802	20,691	26,036	35,206	37,516	136,251

The above tabulation shows that for the five-year period mileage of new lines constructed exceeded that planned for by 80 per cent, and the number of customers added exceeded the plan by 135 per cent.

The sale of power in rural operating areas continues to increase yearly. Only when the many customers recently added have installed the electrical equipment they desire and need will the full extent of the growth in rural demand be realized.

KILOWATTS

KILOWATTS



Rates for Rural Hydro Service

The uniform rate plan inaugurated by the Commission on January 1, 1944, relied heavily and continues to rely for success upon revenues from increased sale of energy. The maximum use of the facilities provided is essential in order to produce sufficient revenue to meet fixed costs.

The revenues obtained during 1949 from all rural customers were not sufficient to meet the cost of serving these customers. During 1950 the Commission, after a complete study of this situation, which was caused by increased costs of material and labour, found it necessary to increase the rates to all types of customers to the extent necessary to cover anticipated future costs. Accordingly, new rate schedules were placed in effect as of May 1, 1950. These new rates are set out in Appendix III of this Report.

The growth in the use of power and the revenues obtained from these new rates materially reduced the deficit in 1950 operation. It is hoped that these rates and increased uses of energy will enable the Commission to maintain the rates now established.

Provincial Assistance

The amalgamation of rural power districts and the unification of rates is made possible by the assistance given by the Province as part of its aid to agriculture. The extent and effect of the financial assistance in the distribution of power in rural operating areas should therefore be clearly understood.

The Government grant-in-aid of 50 per cent of the capital cost of lines and equipment for the supply of power relates solely to the initial capital investment for distribution facilities in rural operating areas.

STATUS OF RURAL SERVICE IN 1950

What has been achieved during the thirty years since Hydro's rural power district program was begun in 1921 is well illustrated by the following:

Properties Served—Rural electrical service is distributed in 103 separate rural operating areas, of which 91 are located in the Southern Ontario System, 1 in the Thunder Bay System, and 11 in the Northern Ontario Properties.

Municipalities Served—The customers served through the 103 rural operating areas are situated in:

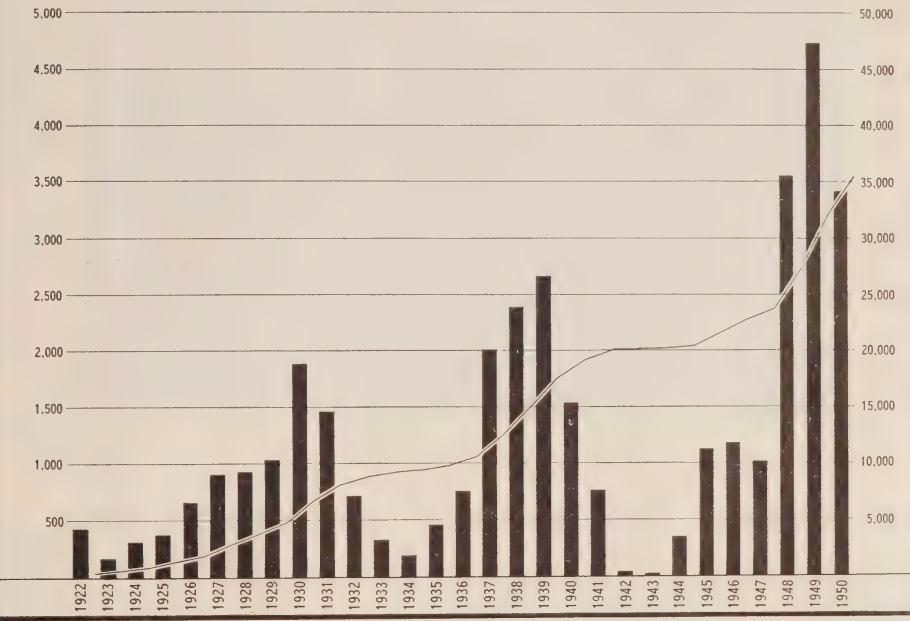
Towns.....	7
Villages.....	9
Police Villages.....	130
Organized Townships.....	512
Unorganized Townships.....	112
Improvement Districts.....	4
Total.....	774

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
RURAL POWER DISTRICTS

MILES BUILT
IN YEAR

MILES OF PRIMARY LINE CONSTRUCTED

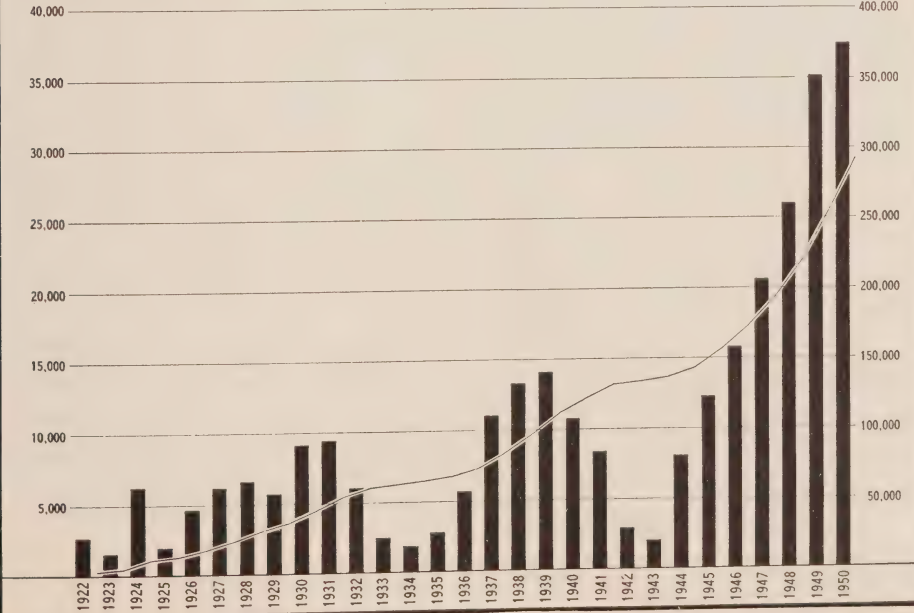
TOTAL MILEAGE
IN USE AT
END OF YEAR



CUSTOMERS
ADDED
IN YEAR

NUMBER OF CUSTOMERS RECEIVING SERVICE

TOTAL CUSTOMERS
SERVED AT
END OF YEAR





RURAL LINE CONSTRUCTION

A common scene in Ontario farming areas. The modern farmer considers electrical service a necessity for maximum production

Miles of Primary Lines—

Miles constructed to October 31, 1949.....	32,059.26
Miles constructed during 1950.....	2,733.70
Miles constructed to December 31, 1950.....	34,792.96

On December 31, 1950, having surveyed the new applications received and the probable demands of the year ahead, the Commission decided on a 1951 program of 4,200 miles of new line. Together with lines not completed at the end of December, 1950, the entire program which the Commission will endeavour to complete will amount to approximately 4,900 miles in 1951.

Customers—

Customers served to October 31, 1949.....	255,295
Customers added during 1950.....	37,516
Total customers served December 31, 1950.....	292,811

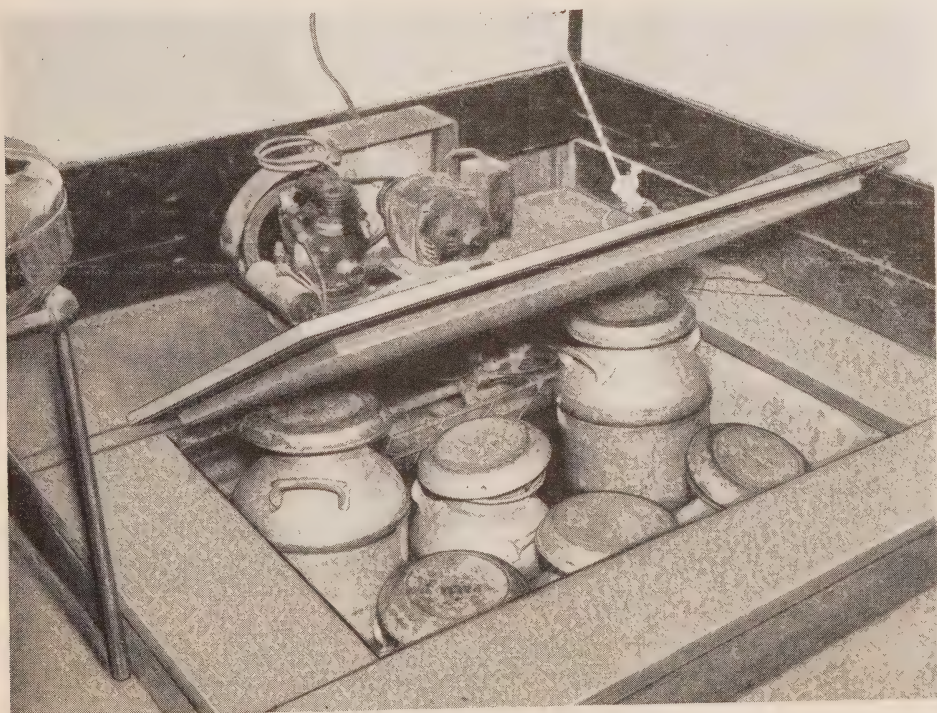
On the assumption that the full program of line construction will be completed, it is expected that the net increase in customers during 1951 will be about 40,000.

A prominent feature of rural service is the large number of farms electrified during the last four years. According to the 1941 Dominion Census there were approximately 178,000 farms in Ontario. Of this number, slightly over 173,000 are considered as the type of farm that would come under the Commission's farm classification for rural electrification.

During the last four years very substantial progress has been made by the Commission in the construction of lines throughout the Province to serve these farms. This growth is shown in the following percentages of saturation for the Province:

1947.....	47
1948.....	52
1949.....	60
1950.....	67

It is pointed out that these saturation figures are based upon the 1941 Dominion Census. Such changes as may have been made in the number of farms in Ontario will not be known until the 1951 census is completed.



PROMPT COOLING OF MILK on the farm stops the growth of bacteria and maintains the quality of a wholesome product. An electric motor, compact, clean, and automatically-controlled, will supply power for a few cents a day

Investment—

Total capital cost of rural lines October 31, 1949.....	\$89,331,733.48
Capital expenditure, 1950.....	17,511,497.74
Total capital cost, December 31, 1950.....	106,843,231.22

In order to complete the program now authorized, it is expected that a capital expenditure of approximately \$31,000,000 will be required.

LOADS

The following table shows the remarkable growth in rural loads during the past thirteen years. The first column shows very large increases in the aggregate peak loads of the months of maximum demand in successive years. The second column shows similar increases in the aggregate peak loads of average months. These increases have been on an unprecedented scale during the past five years.

LOAD GROWTH—RURAL OPERATING AREAS

Year	Maximum aggregate peak load during year		Average aggregate peak load during year	
	kilowatts	Increase for month	kilowatts	Annual increase
		per cent		per cent
1938.....	48,506	8.5	39,824	7.9
1939.....	56,124	10.2	45,979	8.3
1940.....	62,922	9.1	52,233	8.4
1941.....	70,501	10.2	60,609	11.2
1942.....	73,770	4.4	64,616	5.4
1943.....	77,878	5.5	65,787	1.6
1944.....	88,227	13.9	73,538	10.4
1945.....	98,899	14.3	82,996	12.7
1946.....	122,660	36.1	104,304	28.6
1947.....	145,854	31.1	125,224	28.0
1948.....	169,439	19.9	144,085	15.0
1949.....	202,073	19.3	170,569	18.4
1950.....	234,752	16.2	208,584	22.3

Aggregate peak load is the summation of peak loads of all rural operating areas for highest aggregate month. Increase indicates per cent over same month in previous year.

Average aggregate peak load is the summation of twelve monthly peak loads for each and all rural operating areas divided by twelve.

Another feature of the load growth in rural operating areas is the steady increase in the demand created by each customer from year to year. There are two periods during the year when the number of customers affects the aggregate load taken, namely: in summer, usually during August when summer cottages are served, and in winter, usually during December, when summer cottages are not served.

As an indication of this trend in individual demands, the following table sets out the actual demand per customer during the summer and winter months for the last thirteen years. It should be noted that the winter demand is approaching 1 kilowatt for each customer. Furthermore, it is expected that when all customers have installed equipment for their usual needs this demand will be considerably higher.



ELECTRICITY SERVES THE POULTRY INDUSTRY

Whether it is for the electric incubator, with automatically-controlled temperature, humidity, and ventilation; or the electric knife, with speed and positive action, electrical equipment is best for the job. Infra-red heat lamps are shown being used experimentally for chick brooding

SUMMER AND WINTER DEMANDS PER CUSTOMER

Year	Average demand per customer— month of August	Average demand per customer— month of December
	kilowatts	kilowatts
1938.....	0.498	0.537
1939.....	0.504	0.537
1940.....	0.514	0.567
1941.....	0.537	0.601
1942.....	0.550	0.562
1943.....	0.572	0.595
1944.....	0.612	0.628
1945.....	0.632	0.739
1946.....	0.686	0.830
1947.....	0.728	0.836
1948.....	0.770	0.831
1949.....	0.792	0.918
1950.....	0.802	0.933

RURAL SERVICE SINCE ADOPTION OF PROVINCE-WIDE UNIFORM RATES AND
NEW CLASSIFICATION, JANUARY 1, 1944.

Service	Year	Annual revenue	Energy consumption	Number of cus- tomers billed	Average revenue per kwh	Average monthly bill	Average monthly consump- tion
		\$	kwh		cents	\$	kwh
Farm service.....	1944	2,396,508.94	113,706,660	59,639	2.11	3.53	167
	1945	2,606,431.15	137,194,727	65,141	1.90	3.48	183
	1946	3,072,921.16	176,460,859	72,285	1.74	3.72	214
	1947	3,430,307.61	206,420,795	78,668	1.66	3.79	228
	1948	3,942,730.96	242,291,332	87,530	1.63	3.95	243
	1949	4,508,978.00	275,946,330	102,051	1.63	3.96	243
	1950	7,441,437.92	403,018,641	114,724	1.85	4.90	266
Hamlet service.....	1944	1,937,102.28	82,106,734	56,130	2.36	2.95	125
	1945	2,027,283.82	92,056,781	58,867	2.20	2.93	133
	1946	2,345,531.81	118,287,655	66,177	1.98	3.12	158
	1947	2,754,265.69	150,411,043	74,879	1.83	3.24	178
	1948	3,279,149.63	185,225,412	85,598	1.77	3.40	192
	1949	3,552,600.42	200,875,642	94,852	1.77	3.28	186
	1950	5,712,108.72	302,905,040	114,592	1.89	3.90	207
Commercial service..	1944	341,646.50	15,010,213	8,262	2.28	3.51	154
	1945	381,570.09	18,915,619	8,870	2.02	3.72	184
	1946	468,391.94	25,069,924	10,315	1.87	4.07	218
	1947	572,625.58	33,304,037	11,851	1.72	4.30	250
	1948	706,949.62	41,665,764	13,589	1.70	4.63	273
	1949	1,147,167.71	69,458,813	18,439	1.65	5.97	361
	1950	2,083,696.71	113,039,553	18,749	1.84	8.00	434
Summer service.....	1944	435,622.43	11,859,662	19,291	3.67	1.93	53
	1945	473,887.53	14,250,142	20,947	3.33	1.96	59
	1946	555,833.10	18,352,748	24,244	3.03	2.05	68
	1947	632,102.22	21,116,561	27,182	2.99	2.04	68
	1948	722,951.54	24,440,522	31,088	2.96	2.07	70
	1949	855,107.11	28,038,463	37,313	3.05	2.08	68
	1950	1,376,606.36	32,307,669	43,735	4.26	2.81	66

NOTE: The figures shown in these columns include customers connected and billed during the year, but do not include those connected near the end of the year but not billed. Customers taking power and special services are not listed.

RURAL SERVICE, 1928 TO 1943, BEFORE ADOPTION OF PROVINCE-WIDE UNIFORM RATES AND NEW CLASSIFICATION. COMPARABLE FIGURES FOR EARLIER YEARS NOT AVAILABLE

Hamlet and House Lighting Service

Year	Annual revenue	Kilowatt-hours consumed	Number of customers billed*	Average revenue per kwh	Average monthly bill	Average monthly consumption.
	\$	kwh		cents	\$	kwh
1928	530,407.00	10,702,031	17,585	4.95	2.51	50.7
1929	663,311.00	14,424,770	21,219	4.60	2.85	62.0
1930	757,558.00	17,815,987	25,013	4.25	2.73	64.2
1931	974,224.17	22,127,474	31,176	4.40	2.88	65.6
1932	1,075,081.03	24,654,386	33,368	4.36	2.76	63.3
1933	1,133,368.70	25,410,470	35,941	4.46	2.70	60.1
1934	1,149,876.67	27,768,460	37,466	4.14	2.61	63.0
1935	1,171,873.28	30,802,290	39,751	3.80	2.53	66.5
1936	1,239,010.83	35,666,241	43,014	3.47	2.49	71.8
1937	1,331,919.46	40,935,040	46,785	3.25	2.47	76.0
1938	1,439,681.39	47,612,820	52,514	3.02	2.42	79.9
1939	1,649,496.29	54,787,544	58,328	3.01	2.36	78.3
1940	1,812,550.53	60,839,240	62,973	2.98	2.40	80.5
1941	1,995,468.46	67,587,082	67,939	2.95	2.45	82.9
1942	2,118,911.57	72,613,472	69,766	2.92	2.56	87.9
1943	2,170,221.41	73,980,871	70,919	2.93	2.57	87.6

Farm Service

Year	Annual revenue	Kilowatt-hours consumed	Number of customers billed*	Average revenue per kwh	Average monthly bill	Average monthly consumption.
	\$	kwh		cents	\$	kwh
1928	569,007.00	10,969,828	9,309	5.18	4.97	96
1929	777,736.00	16,022,842	12,605	4.85	5.85	121
1930	863,805.00	20,507,063	16,011	4.21	5.03	119
1931	1,128,554.28	25,716,141	20,796	4.39	5.11	116
1932	1,255,482.13	28,675,400	22,432	4.38	4.84	110
1933	1,309,122.96	30,062,194	23,283	4.35	4.75	109
1934	1,319,922.69	33,312,314	23,882	3.96	4.66	118
1935	1,343,222.39	37,667,453	25,357	3.57	4.55	128
1936	1,385,784.39	45,447,669	28,198	3.05	4.31	141
1937	1,366,484.50	54,858,240	35,508	2.49†	3.57	144†
1938	1,711,788.81	67,886,882	44,565	2.52†	3.56	141†
1939	2,090,259.14	81,613,087	53,240	2.56†	3.56	139†
1940	2,405,092.40	93,859,719	58,728	2.56†	3.41	133†
1941	2,690,250.37	107,061,610	63,304	2.51	3.54	141
1942	2,870,300.31	116,448,363	63,748	2.46	3.75	152
1943	2,934,011.31	121,428,714	64,292	2.42	3.81	158

* See footnote to table on page 64.

† In the period 1937 to 1940, there was an increase in the statistical average revenue per kilowatt-hour and a decrease in the statistical average monthly consumption per customer. Actually there was a great increase in the use of electricity by nearly all individual Hydro customers and a corresponding decrease to each customer in the average cost per kilowatt-hour. But due to the tremendous growth at that time in new customers, who for the first few years were not equipped to use large quantities of electricity each month, the smaller monthly consumption of the new customers when averaged with the increased use of the older customers produced per customer averages which obscured the true trends of individual growth in use and individual reductions in costs.

**RURAL LINE EXTENSIONS APPROVED BY THE COMMISSION
DURING THE YEAR 1950**

System	Miles of primary line	Net increase in number of customers			Capital approved for extensions	
		Farm	Non-farm	Total	Total	Provincial grant-in-aid
SOUTHERN ONTARIO					\$	\$
Western Region.	131.84	1,280	3,613	4,893	2,125,732	1,062,866
West Central Region..	214.62	1,391	3,417	4,808	2,170,672	1,085,336
Niagara Region.	41.24	275	1,346	1,621	479,554	239,777
Toronto Region.	47.70	464	2,049	2,513	812,482	406,241
Georgian Bay Region..	581.19	2,560	4,779	7,339	3,107,358	1,553,679
East Central Region..	356.80	1,255	3,219	4,474	1,993,784	996,892
Eastern Region.	421.75	1,756	2,523	4,279	2,177,506	1,088,753
Southern Ontario totals.	1,795.14	8,981	20,946	29,927	12,867,088	6,433,544
THUNDER BAY						
Northwestern Region..	41.22	127	121	248	219,100	109,550
NORTHERN ONTARIO PROPERTIES						
Northeastern Region..	298.95	830	2,839	3,669	1,825,626	912,813
Northwestern Region..	70.04	145	310	455	335,784	167,892
Northern Ontario Properties totals.	368.99	975	3,149	4,124	2,161,410	1,080,705
Totals.	2,205.35	10,083	24,216	34,299	15,247,598	7,623,799

SUMMARY OF RURAL LINE CONSTRUCTION

Approved by the Commission from June 1, 1921 to December 31, 1950
Constructed or Under Construction

System	Miles of primary line	Number of customers			Capital expenditure	
		Farm	Non-farm	Total	Total	Provincial grant-in-aid
SOUTHERN ONTARIO					\$	\$
Western Region.	7,011.61	28,591	36,246	64,837	21,421,426.73	10,606,789.54
West Central Region	5,816.33	22,185	24,271	46,456	18,571,444.38	9,242,812.76
Niagara Region.	1,273.04	5,810	12,603	18,413	5,399,473.62	2,675,861.50
Toronto Region.	1,841.18	6,339	16,583	22,922	6,238,569.51	3,092,337.57
Georgian Bay Region	6,971.70	18,569	33,169	51,738	20,122,850.42	9,931,929.17
East Central Region..	5,146.55	14,370	26,425	40,795	14,974,479.86	7,446,062.70
Eastern Region.	4,403.42	13,700	14,500	28,200	13,474,014.87	6,688,242.98
Southern Ontario totals	32,463.83	109,564	163,797	273,361	100,202,259.39	49,684,036.22
THUNDER BAY						
Northwestern Region	640.75	1,514	2,062	3,576	1,996,391.84	998,132.01
NORTHERN ONTARIO PROPERTIES						
Northeastern Region	1,942.27	3,894	12,343	16,237	8,394,202.20	4,143,549.90
Northwestern Region	436.19	838	1,095	1,933	2,041,864.79	1,018,585.96
Northern Ontario Properties totals.	2,378.46	4,732	13,438	18,170	10,436,066.99	5,162,135.86
Totals.	35,483.04*	115,810	179,297	295,107	112,634,718.22	55,844,304.09

*These totals include 690.08 miles of primary line under construction on December 31, 1950 and service to 2,296 (consisting of 1,085 farm and 1,211 non-farm) new customers not completed until after the end of the fiscal year.

The capital expenditure and Provincial grant-in-aid outlined above includes the total actual expenditure to December 31, 1950, plus an estimate of the cost of completing lines partially constructed in 1950.

RURAL OPERATING AREAS

MILES OF LINE, NUMBER OF CUSTOMERS—DECEMBER 31, 1950

Constructed and Receiving Service

Region	Miles of line constructed	Number of customers receiving service						Not completed in 1950*	
		Farm	Hamlet	Commercial	Summer	Power	Total	Miles	Customers

SUMMARY

Western.....	6,929.20	28,539	26,407	3,535	5,958	241	64,680	82.41	157
West Central.....	5,735.79	22,083	18,916	2,606	2,432	221	46,258	80.54	198
Niagara.....	1,235.33	5,795	9,747	927	1,789	115	18,373	37.71	40
Toronto.....	1,800.65	6,314	11,281	1,131	3,991	118	22,835	40.53	87
Georgian Bay.....	6,882.68	18,433	11,818	2,833	18,333	61	51,478	89.02	260
East Central.....	5,051.67	14,177	16,338	2,737	7,052	96	40,400	94.88	395
Eastern.....	4,293.10	13,421	9,406	2,369	2,515	95	27,806	110.32	394
Southern Ontario totals.....	31,928.42	108,762	103,913	16,138	42,070	947	271,830	535.41	1,531
Northwestern (Thunder Bay).. <td>621.87</td> <td>1,511</td> <td>1,461</td> <td>230</td> <td>364</td> <td>7</td> <td>3,573</td> <td>18.88</td> <td>3</td>	621.87	1,511	1,461	230	364	7	3,573	18.88	3
Northwestern (N.O.P.).....	423.36	783	703	218	44	3	1,751	12.83	182
Northeastern.....	1,819.31	3,669	9,387	1,293	1,255	53	15,657	122.96	580
Total all regions...	34,792.96	114,725	115,464	17,879	43,733	1,010	292,811	690.08	2,296

*Miles of line and total customers, not included in preceding columns.

Details of each rural operating area are given in the tables of Appendix III to the Report.

SECTION V

ENGINEERING AND CONSTRUCTION

Impressive Highlights of Development Program—

Expansion Continues Unabated—

Fuel-Electric Projects

THE Commission's construction program, which has been pursued with ever mounting vigour since the close of World War II, was signalized by remarkable achievement during 1950 when four major hydro-electric generating stations were placed in service. Three of these, the George W. Rayner, Pine Portage, and Des Joachims were officially opened on June 14, June 21, and June 28 respectively. Chenaux Generating Station was first placed in service in November. The first three of these are described at length and Chenaux and other projects still under construction are described more briefly in this section.

The first report on the Commission's plans for further development of Niagara power is also included. The potential capacity at Niagara, increased by international agreement during 1950, and that of the international section of the St. Lawrence River are the only major resources of hydro-electric power—within reasonable transmission distance of southern Ontario—remaining undeveloped. Rapid growth of demands combined with continued uncertainty as to the prospects of developing the St. Lawrence made it advisable for the Commission to authorize in 1948 and 1949 the construction of two large fuel-electric generating stations, the J. Clark Keith at Windsor and the Richard L. Hearn at Toronto. During 1950 excellent progress was made on these projects by the contractors engaged by the Commission. The remarkable load growth experienced during the latter half of the period and further postponement of a decision to develop the St. Lawrence led the Commission to authorize the installation of one additional unit at J. Clark Keith Generating Station and two additional units at Richard L. Hearn Generating Station.

The task of planning and supervising or executing large-scale projects for the generation, transmission, transformation, and distribution of power kept the Engineering, Supply, and Construction Divisions very busily engaged throughout the year. Difficulties in procuring workers, both skilled

Summary of Hydro's Development Program—1945 to 1954

CONSTRUCTION OF GENERATING STATIONS

As at December 31, 1950

<i>System and development</i>	<i>In operation</i>	<i>In service</i>	<i>Dependable peak capacity kilowatts</i>
SOUTHERN ONTARIO SYSTEM			
DeCew Falls (Extension)—Niagara Region.....	Sept. 1947		57,000
Stewartville—Madawaska River.....	Sept. 1948		63,000
Additional power purchase contract—Polymer Corporation.....	Nov. 1948		22,500
Emergency fuel-electric units.....	Jan. 1949—Apr. 1950		63,000*
Des Joachims—Ottawa River.....	7 units, July—Dec. 1950		350,000
Chenau—Ottawa River.....	2 units, Nov.—Dec. 1950		30,000
THUNDER BAY SYSTEM			
Aguasabon—Aguasabon River.....	Oct. 1948		40,000
Pine Portage—Nipigon River.....	July 1950		60,000†
NORTHERN ONTARIO PROPERTIES			
Ear Falls (Extension)—English River.....	June 1948		6,000
George W. Rayner—Mississagi River.....	July 1950		42,000
Total in service.....			733,500
<i>Authorized and Under Construction</i>			
SOUTHERN ONTARIO SYSTEM			
Des Joachims—Ottawa River.....	1 unit, Feb. 1951		50,000
Chenau—Ottawa River.....	6 units, Jan.—Sept. 1951		90,000
Otto Holden—Ottawa River.....	8 units, Dec. 1951—Oct. 1952		204,000
J. Clark Keith—Windsor.....	3 units, Sept. 1951—Nov. 1952		198,000
Richard L. Hearn—Toronto.....	4 units, Sept. 1951—Feb. 1953		376,000‡
Sir Adam Beck—Niagara No. 2—Niagara River.....	6 units—1954		450,000**
Total under construction.....			1,368,000
Total in service and under construction.....			2,101,500
*Including 10,000 kilowatts not available October—December.			
†Ultimate capacity planned, 120,000 kilowatts.			
‡Ultimate capacity after conversion of first and third units to 60-cycle operation, 400,000 kilowatts.			
**Installed capacity.			
Financial Summary of Hydro's Capital Development Program to December 31, 1950			
For Power Generation:			
Expenditures on projects in service.....		\$188,613,807	
Expenditures on projects under construction.....		65,037,787	
Unexpended portion of approvals.....		250,779,642	
			\$504,431,236
For Transmission Lines:			
Expenditures on lines in service.....		\$ 69,430,938	
Expenditures on lines under construction.....		12,513,401	
Unexpended portion of approvals.....		18,258,311	
			100,202,650
For Transformation, Frequency-Changer Station Facilities, And Service Buildings:			
Expenditures on facilities in service.....		\$ 76,798,474	
Expenditures on facilities under construction.....		11,256,967	
Unexpended portion of approvals.....		24,807,759	
			112,863,200
For Rural Construction:			
Expenditures on lines and facilities in service.....		\$ 58,485,718	
Expenditures on lines and facilities under construction.....		4,299,838	
Unexpended portion of approvals.....		2,935,000	
1951 Program.....		26,160,000	
			91,880,556
Other Approved Expenditures.....			45,445,818
			\$854,823,460

NOTE: The figures for the rural program include the expenditures in 1946 and 1947 and the authorized future program in order to conform with the basis used for the rest of the figures in the table.

and unskilled, and shortages of a long list of materials, particularly steel and other metals, made the task even more onerous than it would otherwise have been. Nevertheless the performances of all departments, as described subsequently in this section, were excellent.

System Planning and Program Planning

Numerous studies were made on proposed development of resources and incorporation of the output of these into existing transmission systems. Planning of facilities required to supply new and increased loads was carried out and the volume of this work was greatly increased due to the relatively large increases in load which occurred in the latter half of the year. Planning studies preceding the actual construction of a new power development on the Niagara River were undertaken and are continuing, along with work to determine the associated transmission requirements for this project. The extensions to authorized fuel-electric generating stations at Toronto and Windsor required planning studies to determine the transformer and transmission facilities associated with them. Basic area plans to provide power supply for frequency standardization were produced. The performance of the 230-kv, 60-cycle network placed in service in July 1950 has been scrutinized carefully to determine its adequacy. In conjunction with the Operations and Research Divisions, studies were made to obtain improved performance from the 230-kv, 60-cycle network during its initial operating stages.

Frequency standardization and several large additions to the Commission's generating resources recently placed in service and under construction have added greatly to the complexity of planning the system transmission line and station facilities. Superimposed on this problem is the planning of supply of 60-cycle power to numerous 25-cycle municipal centres in advance of standardization to enable new loads to be supplied at the higher frequency and so to forestall the need for frequency change later.

These problems have emphasized the importance of planning system facilities, not only to meet present and immediate requirements, but also to insure their fitting appropriately into the picture of long-term growth, no matter how large this may become.

The Commission's program planning developed the timing for system additions and extensions with due consideration of the relative urgency of system needs including frequency standardization, the interdependence of generating stations, transmission lines and terminal facilities, and the availability of materials and the work load in engineering and construction. Revisions to individual project schedules were made when necessary to comply with changing conditions of system requirements, flow of materials, and work loads. Of particular importance was the acceleration of schedules for the Otto Holden and Chenaux projects, together with their associated lines and terminal facilities in order to help meet unexpected load growth.

Consulting Engineering Division

A new engineering division was created late in 1948 from what was called the New Building Section. It is entrusted with the planning, design, supervision, and in some cases the execution, of a large number of projects

of varying size not specifically related to the generation or distribution of power. During the 1950 fiscal period the division was responsible for the erection of thirty buildings having a total area of 750,000 square feet. It provided eleven operating bases for the Frequency Standardization Division. Buildings, pavements, water supply, and drainage facilities were provided and power and telephone services were extended at the A. W. Manby Service Centre. One of the division's special tasks has been the supervision of the use of Bailey bridging in the Commission's construction program. In all, the division was responsible during 1950 for 121 different jobs involving expenditures in excess of \$8,000,000.

Supply of Material and Equipment

At the beginning of the year construction materials for the Commission's projects were more readily available. This situation continued until the summer of 1950 when the threat of war, with attendant increases in the manufacturing of defence materials, caused shortages of many items and consequential price increases. In the past few years the Commission has obtained or assured delivery of the main supplies needed for the completion of its construction program. It will however still have to contend with shortages and increased prices of materials needed for the construction of the new development at Niagara.

PROGRESS ON POWER DEVELOPMENTS

Four major hydro-electric generating stations were brought into service during the year, excellent progress was made on another, and preliminary work was commenced on a new development on the Niagara River, namely Sir Adam Beck-Niagara Generating Station No. 2. In the following paragraphs extended descriptions of three completed projects are submitted and progress during the year on those under construction is outlined.

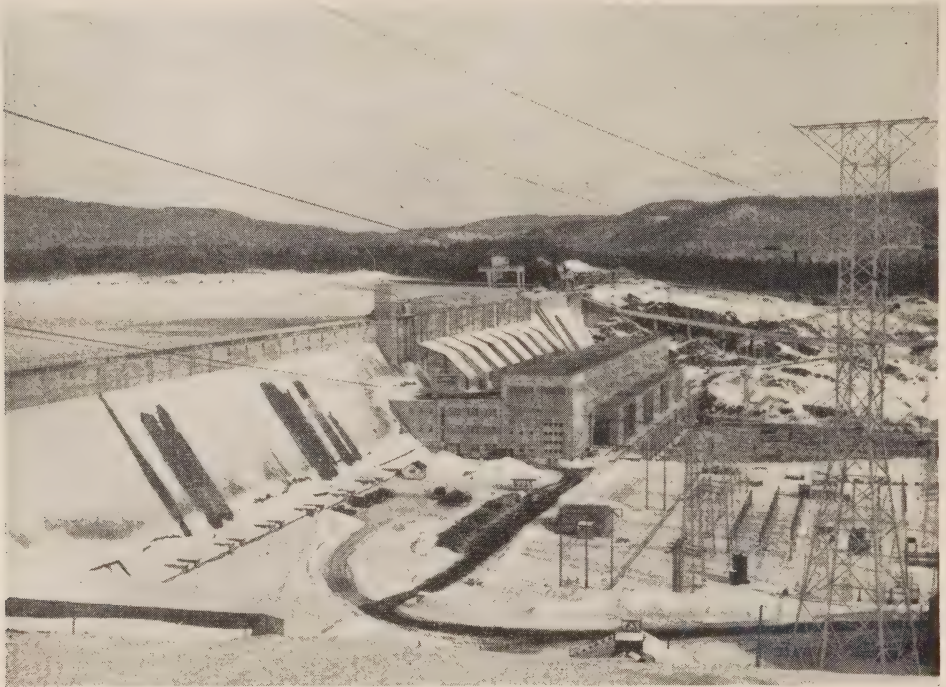
In addition to the work on new power developments, activities included the collection of hydrometric data, supervision of the control of storage basins and of various water diversions, and renewals and improvements at various generating stations throughout the Province.

SOUTHERN ONTARIO SYSTEM

DES JOACHIMS GENERATING STATION—OTTAWA RIVER

This, the largest of three new developments on the Ottawa River, was officially opened on June 28, 1950 and two of the eight units carried commercial load on July 6. Five additional units came into service on August 12, August 27, October 1, November 5, and December 13, while the eighth and last unit was placed in service in February 1951.

The rated capacity of the eight units totals 358,000 kilowatts. Tests conducted recently indicate that the peak capacity of the generating station will exceed this figure appreciably. The project is located on the main river at the Rapide Des Joachims near the Village of Des Joachims about 38



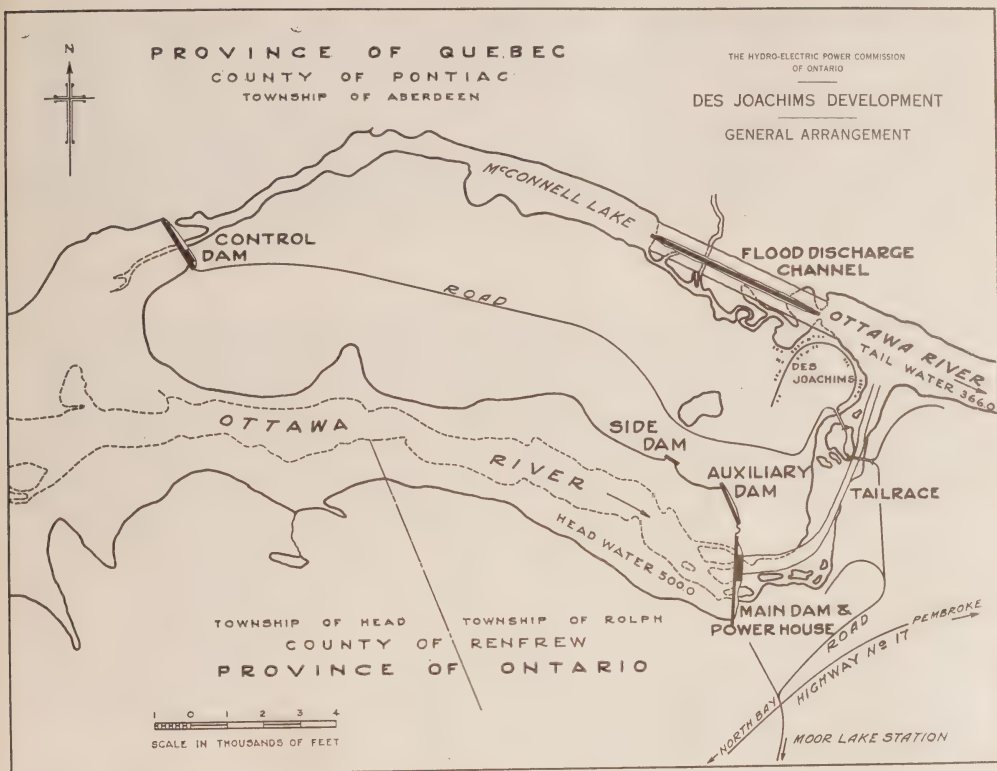
DES JOACHIMS—The main dam and power-house area, late 1950

miles up the river from Pembroke. Construction commenced in the fall of 1946. The estimated cost of the generating facilities is \$75,775,000.

The accompanying plan shows the general arrangement of the project, which comprises essentially the main dam and power-house, a tail-race channel, the McConnell Lake Control Dam, side dams, and a flood-discharge channel for passing high river-flows. The work included the clearing of 11,000 acres of land between the Des Joachims site and the Village of Mattawa, creating a lake 57 miles long, the diversion and rebuilding of 23 miles of railway line and 12 miles of Provincial highway, and the raising and reconstruction of the Canadian Pacific Railway bridge across the Ottawa River at Mattawa.

Construction Procedure

The main dam is located at the Rapide Des Joachims where the Ottawa River flowed through three separate channels. The Ontario channel was closed off first with up-stream and down-stream cofferdams. The portion of the dam spanning this channel was built, leaving nine temporary openings, 40 feet wide, the full height of the dam, and separated by piers or sections of dam 20 feet wide. The McConnell Dam was also started, leaving nine similar temporary openings 30 and 38 feet wide. The Quebec channel was closed and finally the middle or interprovincial channel was closed, the river-flow then passing through the temporary openings left in the Ontario channel, while the Quebec end of the dam and the part of the dam under the head-works were built. Following this, the pours to close the temporary



openings in the main dam were made in nineteen planned stages behind three large steel gates that were lowered down the up-stream face of the dam. The object was to conserve water to raise the head-pond as the pours were being made, while still permitting the passage of the minimum flow of water required by the generating stations located farther down the river. At the same time, sufficient discharge capacity was provided to dispose of freshet-flows, should they occur, without causing the head-pond to overtop incomplete sections of the dam. Closure-pours at the main dam were made to elevation 435, and above this the concrete was placed by the conventional method for the remaining 70 feet. When the temporary openings were concreted to elevation 435, the entire river-flow was diverted through the nine temporary openings left in the McConnell Dam. The tail-race from the power-house to the Deep River section of the Ottawa River was then excavated in the dry by building a cofferdam at the lower end of the tail-race channel. Closure at McConnell Dam, like that at the main dam, proceeded in stages—39 for the full height of the dam—and the head-pond was gradually raised to the elevation required.

Main Dam

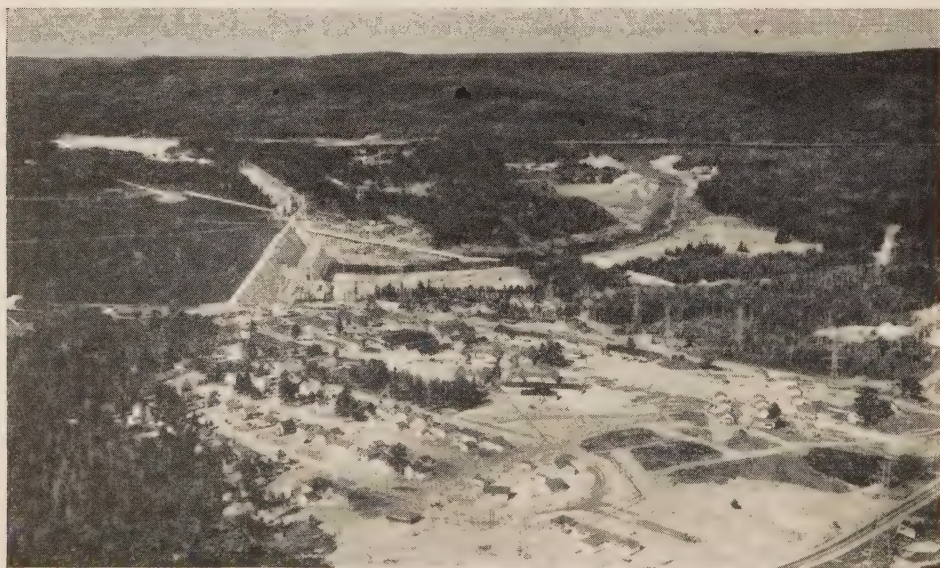
The main dam is a concrete structure 2,400 feet long with a maximum height of 180 feet. The standard bulkhead section has a top width of 18 feet 6 inches, the up-stream face has a batter of 1 to 24, and on the down-

stream side the face is vertical for a distance of 19 feet and then slopes down-stream on an $8\frac{1}{2}$ to 12 batter. An inspection tunnel 4 feet wide and 8 feet high is provided near the base of the dam, 12 feet down-stream from the base-line, through the deep sections of the dam with a portal at each end. The head-works is centred approximately on the Interprovincial Boundary and has a total length of 480 feet. A trash-chute has been provided on the main dam just north of the head-works, and a log-chute farther north on the Quebec end.

Head-Works

The head-works section consists of eight separate intakes. Water from the forebay enters each intake through two openings which merge before reaching the penstock. Racks are provided in each opening, and are placed up-stream from the face of the dam so that any waterlogged roots or logs may be pushed below the intake. For dewatering the head-gates, steel emergency stoplogs may be placed down-stream from the trash-racks. Head-gates are provided for each intake and each head-gate is equipped with an independent hoisting mechanism driven through suitable gearing from an electric motor. The hoisting mechanism is housed in a reinforced-concrete superstructure 480 feet long, 17 feet wide and 13 feet high, situated on the down-stream side of the head-works deck. On the head-works deck, astride the superstructure, an electrically-operated gantry-crane with a capacity of 40 tons is provided for the handling of the head-gates, emergency stoplogs, and trash-racks. An auxiliary hook of higher speed with a capacity of 4 tons is also provided for the handling of trash.

Off the south end of the head-works superstructure, an observation gallery and lobby have been provided, from which point an elevator travels



DES JOACHIMS—The development, with McConnell Lake in the left background, summer 1950

down into the main dam. From here a tunnel through the dam provided access to the power-house at the control-room level.

Penstocks

Eight steel-plate penstocks, 22 feet in diameter and 140 feet long, encased in concrete, convey the flow from the head-works to the turbines in the power-house substructure at the base of the dam.

Log-Chute

The log-chute head-block in the main dam has a 20-foot sluice-way, with the sill 10 feet below normal headwater level and has a motor-operated Taintor-type gate to control the flow, by raising or lowering the gate. With this control, any desired depth of flow over the gate for the passage of logs can be obtained. A concrete transition-section directs the flow from the 20-foot sluice-way into a steel-plate V-shaped chute, 7 feet deep, 9 feet wide, and approximately 1,000 feet long, which is supported on steel towers and concrete piers at 50-foot centres.

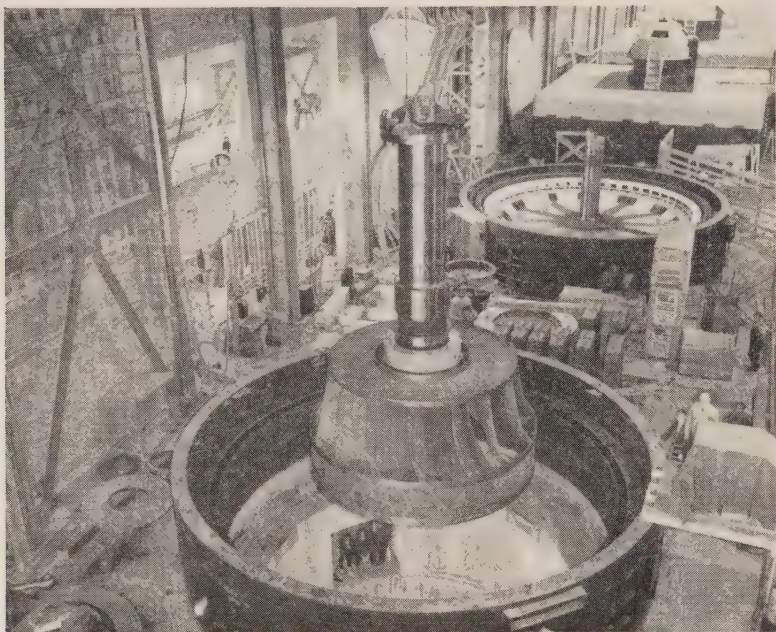
Power-House Substructure

The power-house is located at the base of the down-stream side of the dam and is centred on the Interprovincial Boundary. The lower elbow of the penstock and the steel-plate scroll-case are encased in the concrete substructure. The water, after passing through the scroll-case and turbine, enters concrete elbow-type draft-tubes and then passes into the tail-race. Each draft-tube may be dewatered by placing a set of steel stoplogs between the tail-race piers by means of a monorail-hoist on the underside of the tail-race deck. For dewatering, the draft-tubes are drained into sumps provided between each pair of units, with pumps which discharge into the tail-race channel.

Generating Station Equipment

Eight vertical-shaft generating units each comprising a Francis-type turbine directly connected to a conventional-type generator operate at a speed of 105.9 rpm. The turbines and governors were furnished by Dominion Engineering Company Limited and the generators by Canadian Westinghouse Company Limited. Each turbine has a rated capacity of 62,000 brake horsepower at 130-foot head. The governors are of the twin-cabinet type situated up-stream and centrally with respect to the two units served. The governor pressure-system is equipped with a pressure-tank and a sump-tank which are interconnected to form a twin system. Operation of the pumps is controlled so that one of them supplies both pressure-tanks at normal pressure, while the other is a stand-by and starts only when pressure falls to a pre-determined amount below normal.

The generators are totally enclosed, 50,000-kva, 0.9 power factor, 3-phase, 60-cycle, 13.8-kv machines. The air enclosed within each generator's modern square casing is circulated by fans and cooled by water in eight cooling-coils mounted on the generator-frame.



DES JOACHIMS—Installing one of the eight turbines in the power-house

The generating station has two electrically-operated cranes, each having a capacity of 170 tons on the main hook, and 25 tons on an auxiliary hook. An equalizer-beam provides for the use of both cranes in the handling of heavier loads.

Power-House Superstructure

The power-house superstructure is 590 feet long, 58 feet wide, and 65 feet high. The building is of structural steel, framed with reinforced-concrete walls and roof. Daylight is admitted through panels of glass blocks between columns on the up-stream and down-stream sides and the south end of the power-house generator-room. The north end has one large steel-framed glazed window. The machine- and electrical-shops, storage-rooms and station service-area are located on the generator-room floor-level in the one-storey section of the building between the generator-room and the down-stream face of the dam. The battery-, cable-, lunch-, locker-, and wash-rooms are at the southerly end of the power-house on the generator-room floor-level of the section of the building between the generator-room and the down-stream face of the dam, with the control-room, reception-wing, and offices in the two upper floors.

Tail-Race

The tail-race channel, approximately 7,000 feet long, excavated in solid rock along the existing river-bed, conveys the water discharged from the generating station to the Deep River section of the Ottawa River. A width of 480 feet at the draft-tube outlets is reduced in a transition to 175 feet, which continues to a point near the exit to the Deep River where, in a second transition, it widens to 490 feet.



McCONNELL LAKE CONTROL DAM—Control gates and sluice-ways, September 1950

McConnell Dam

The McConnell Dam is a concrete structure 1,600 feet long with a maximum height of 130 feet. It is located at the upper end of an ancient river channel which provides a convenient means of by-passing excess flow. As a control dam it has been provided with six power-operated fixed roller-type sluice-gates, 40 feet wide, with sills 25 feet below normal water-level. There are also forty stoplog-sluices, 16 feet wide, with sills 20 feet below normal water-level. The stoplogs are handled by means of two motor-operated spud-winches. An inspection tunnel at the base of the dam, similar to the one at the main dam, has been provided.

During periods of high river-flow, excess water passes through this dam into McConnell Lake and then through a partly excavated, and partly eroded channel into the Deep River section of the Ottawa River.

Power into System

The 13.8-kv power from each generator is conducted by copper buses in metal compartments through a 3,000-ampere air-blast circuit-breaker in a metal-clad structure, thence through single conductor-cables to the main transformer bank. Each bank consists of three 33,333-kva, single-phase, water-cooled transformers, connected delta-star to step up to 230 kv with the high-voltage neutral solidly grounded. Each transformer has two low-voltage windings to receive the output independently from each of two generators. This results in an arrangement of four main transformer banks on the tail-race deck to serve the eight generating units.

The switchyard is located southeast from the erection bay. The area contains fourteen 230-kv, 800-ampere, 5,000,000-kva rupturing capacity, pneumatically-operated oil circuit-breakers, each with its own air-compressor and storage bank. Twelve circuit-breakers are arranged for three-pole reclosure and the other two for single-pole tripping and reclosure. The 230-kva ring-bus is based on the arrangement of one and one-half breaker per element. From this bus, four circuits on steel towers lead southward to Minden Switching Station, and one westerly to the Otto Holden project, with provision for a future sixth line.

Relay, telephone, and oil-treating buildings, oil-storage tanks, control-duct lines, and piping, are located within this yard. Carrier-communication and relaying on the 230-kv circuits is provided.

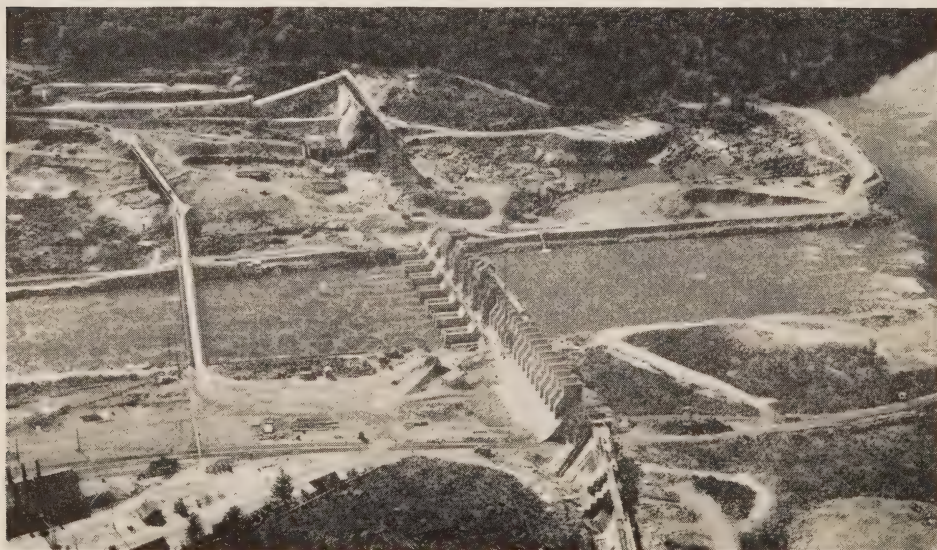
Operators' Colony

The Operators' colony situated on the height of land overlooking the main dam and power-house consists of 33 permanent homes and 9 temporary homes formerly used by the construction forces. The houses are grouped around an oval with a road leading to Provincial Highway No. 17. At the entrance to the colony a three-room school has been built, and a separate one-room temporary class-room. Near the colony a staff house with dining facilities will accommodate 25 people in single and double rooms.

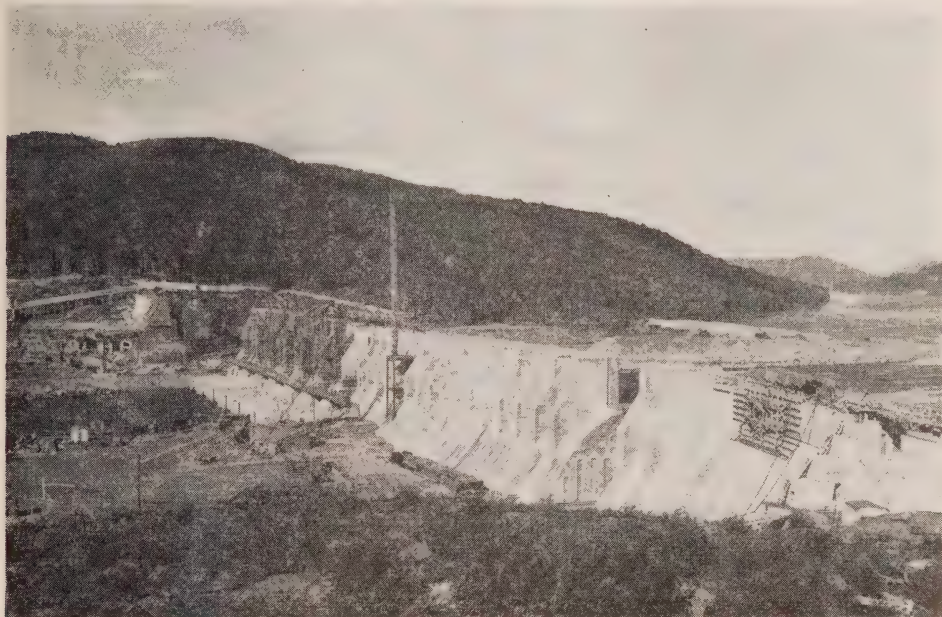
OTTO HOLDEN DEVELOPMENT—OTTAWA RIVER

(FORMERLY LA CAVE DEVELOPMENT)

<i>Situation</i>	—About 5 miles up-stream from Mattawa.
<i>Installed Capacity</i>	—192,000 kilowatts in eight units, 60 cycles.
<i>Head</i>	—77 feet.
<i>Length</i>	—Dam and head-works 1,500 feet.
<i>Estimated Cost</i>	—\$55,000,000.



OTTO HOLDEN GENERATING STATION—Summer 1950



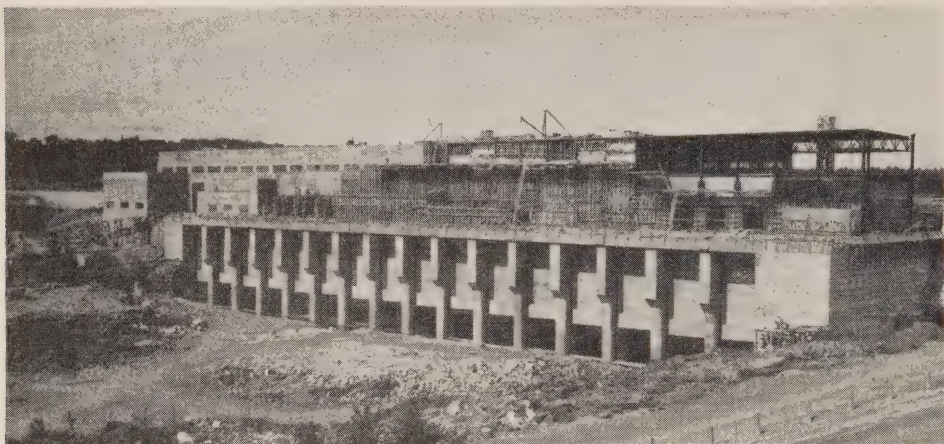
OTTO HOLDEN GENERATING STATION—Dam and head-works, September 1950

Actual construction started early in 1949 and necessitated the rerouting of the greater part of the Canadian Pacific Railway from Mattawa to Temiskaming. At the beginning of 1950, excavation was proceeding for the main dam, concrete was placed in portions of the west gravity-wall, and the diversion channel, through which the river flows during construction of the power-house, was nearing completion. By the end of the year rerouting of Highway No. 63 was completed, rerouting of the Canadian Pacific Railway was well advanced, about 40 per cent of the concrete had been placed in the power-house, and tail-race excavation, head-works and sluice-gates were well advanced. It is expected that closure of the main dam and the consequent gradual raising of headwater level will commence in July 1951.

CHENAUX GENERATING STATION—OTTAWA RIVER

- Situation* —About 60 miles down-stream from Des Joachims and 10 miles from Renfrew.
- In Service* —Unit No. 1, November 20, 1950; Unit No. 2, December 5, 1950; remaining units by December 1951.
- Installed Capacity*—120,000 kilowatts in eight units, 60 cycles.
- Head* —40 feet.

At the beginning of the year about 60 per cent of the concrete in the power-house substructure had been placed, the Portage du Fort Dam and



CHENAUX GENERATING STATION—Main dam and power-house, September 1950

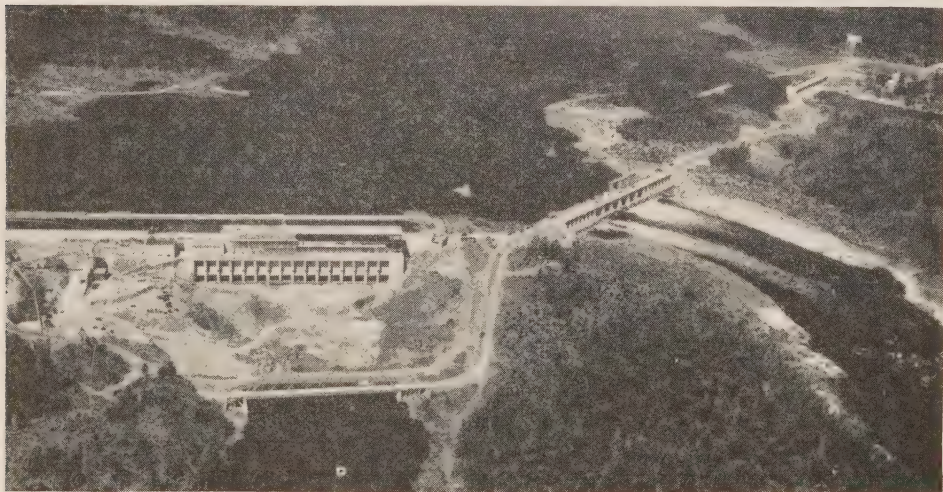
clearing of flooded lands were largely completed. By March, installation of turbines was progressing and by August the Limerick Island Dam was well advanced. Work in general was in advance of that visualized a year ago to the degree that the first unit was in operation on November 20, and the second on December 5, 1950.

SIR ADAM BECK-NIAGARA GENERATING STATION NO. 2—NIAGARA RIVER

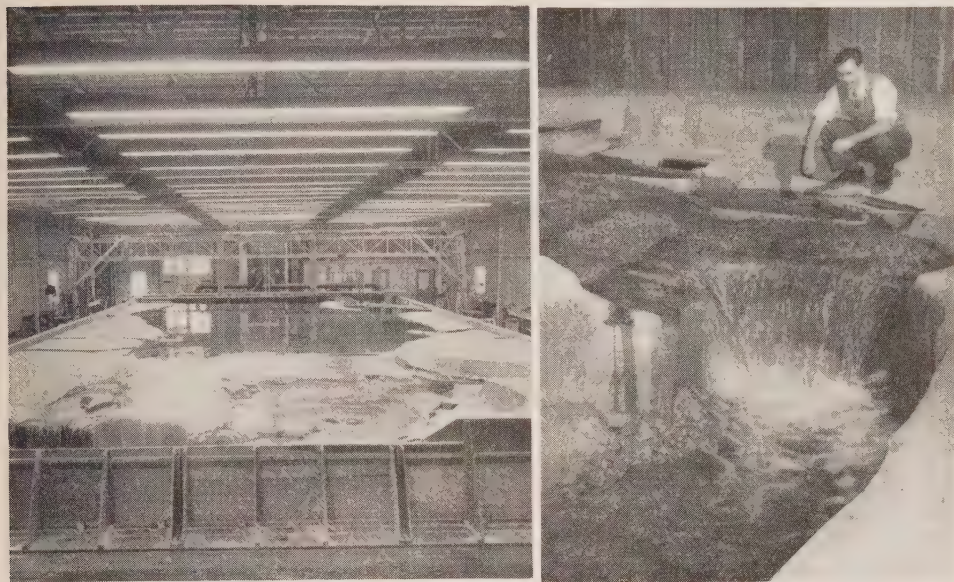
Situation —About $1\frac{1}{2}$ miles above the Town of Queenston and adjacent to Sir Adam Beck-Niagara Generating Station No. 1.

Installed Capacity—450,000 kilowatts in six units, 60 cycles.

In Service —1954.



CHENAUX GENERATING STATION—Portage du Fort Dam and the Limerick Island Dam both to the right of the main dam



NIAGARA MODEL—General view and close-up of the falls—used for design of remedial works at Niagara Falls and for the design of Sir Adam Beck-Niagara Generating Station No. 2

The signing of the Niagara Treaty of 1950, ratifications of which were exchanged on October 10, 1950, opened the way for the enlargement of generating facilities on the Niagara River, the first extension to be undertaken being Sir Adam Beck-Niagara Generating Station No. 2. The development will comprise an intake from the Niagara River near the Village of Chippawa, a tunnel about 5 miles long leading to an open channel 2 miles in length, a forebay, head-works, six penstocks, and a power-house. The power-house will contain six units, the turbines of which are each rated at 105,000 brake horsepower, and will be situated on the shore of the Niagara River a few hundred feet up-stream from Sir Adam Beck-Niagara Generating Station No. 1.

Preliminary construction work on camps, access roads, etc., was commenced and contracts for generating equipment and tunnel excavation will be awarded early in 1951.

Fuel-Electric Stations

J. CLARK KEITH GENERATING STATION

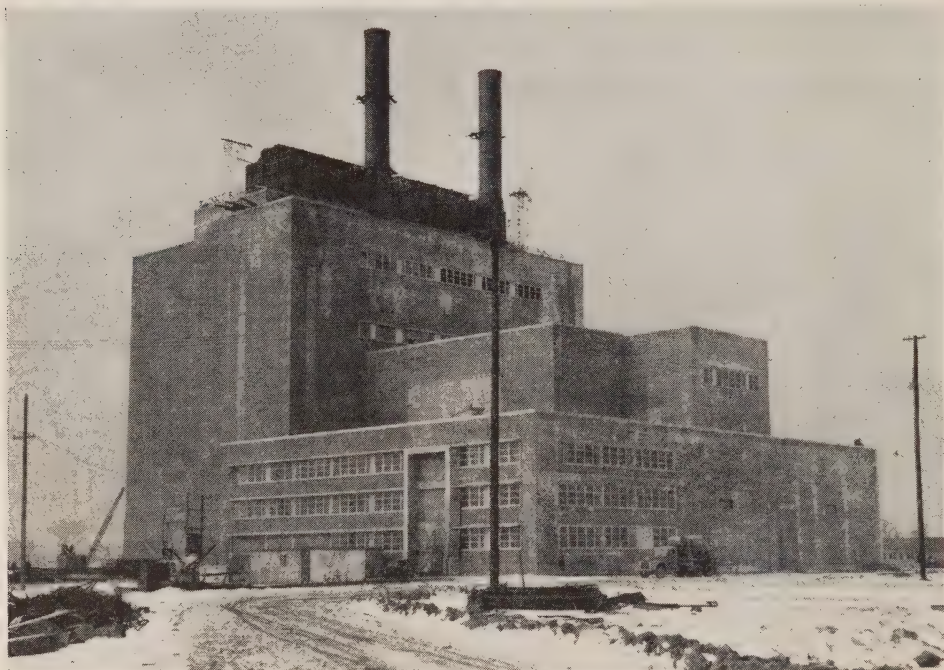
Situation —4450 Sandwich Street, Windsor. Adjacent to the Detroit River.

In Service —Unit No. 1, October 1951; Unit No. 2, December 1951; Unit No. 3, November 1952.

Installed Capacity—198,000 kilowatts in three units, 60 cycles.

Estimated Cost —\$35,000,000.

The initial approval allowed for two units but during 1950, authority was granted for the installation of a third and similar unit of 66,000 kilowatts.



J. CLARK KEITH GENERATING STATION—December 1950

H. G. Acres and Company, Consulting Engineers, have been retained as consultants and designers on the initial installation and on the extension of this station.

First Stage—Units No. 1 and 2

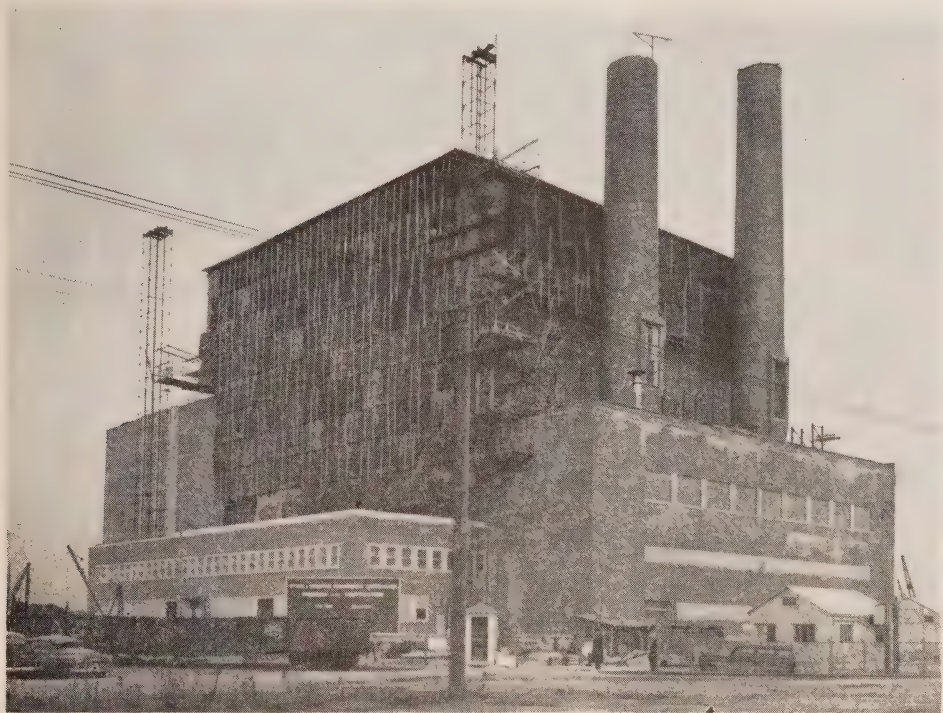
At the end of 1950, the main building was almost completed. A temporary end-wall was erected so that the building could be heated during the winter and the erection of equipment could proceed on schedule. The control and intake buildings and the intake and discharge tunnels under the main building were completed.

Steel stacks, dust collectors, steam generators, cooling-water screens, and permanent heating and lighting equipment were partially installed.

RICHARD L. HEARN GENERATING STATION

- Situation* —440 Unwin Avenue, Toronto, south of the Ship Channel in the eastern area of Toronto Harbour.
- In Service* —Unit No. 1, September 1951; Unit No. 2, November 1951; Unit No. 3, November 1952; Unit No. 4, February 1953.
- Installed Capacity*—Units No. 1 and 3 will each have a capacity of 88,000 kilowatts at 25 cycles for later conversion to 100,000 kilowatts at 60 cycles. Units No. 2 and 4 will each have a capacity of 100,000 kilowatts at 60 cycles.
- Estimated Cost* —\$66,750,000.

Stone and Webster Engineering Corporation have been retained as consultants and designers on the initial installation and extension to this station.



RICHARD L. HEARN GENERATING STATION—December 1950

First Stage—Units No. 1 and 2

By the end of 1950 all of the main foundations were installed and structural steel erected for the main building. The brickwork on the main building was about 80 per cent complete. The roof and temporary end-wall were about 90 per cent complete and the installation of the temporary heating equipment was being expedited to provide heating in the main building during the winter. Erection of No. 1 steam generator was well advanced and work on No. 2 was started. Circulating-water pipes were in place, except for connection to the screen-well and outfall structure. Work on two radial-brick chimneys was about 90 per cent complete.

EMERGENCY FUEL-ELECTRIC GENERATING STATIONS

The five emergency fuel-electric generating stations (steam) which were under construction at the beginning of the fiscal year were all completed by April 1950. These stations, situated at Chatham, Hamilton (two), Thorold, and Scarborough, were operated during the year as required by load conditions.

Details of the capacities of these stations were given on pages 73 and 74 of the Commission's 42nd Annual Report.

THUNDER BAY SYSTEM

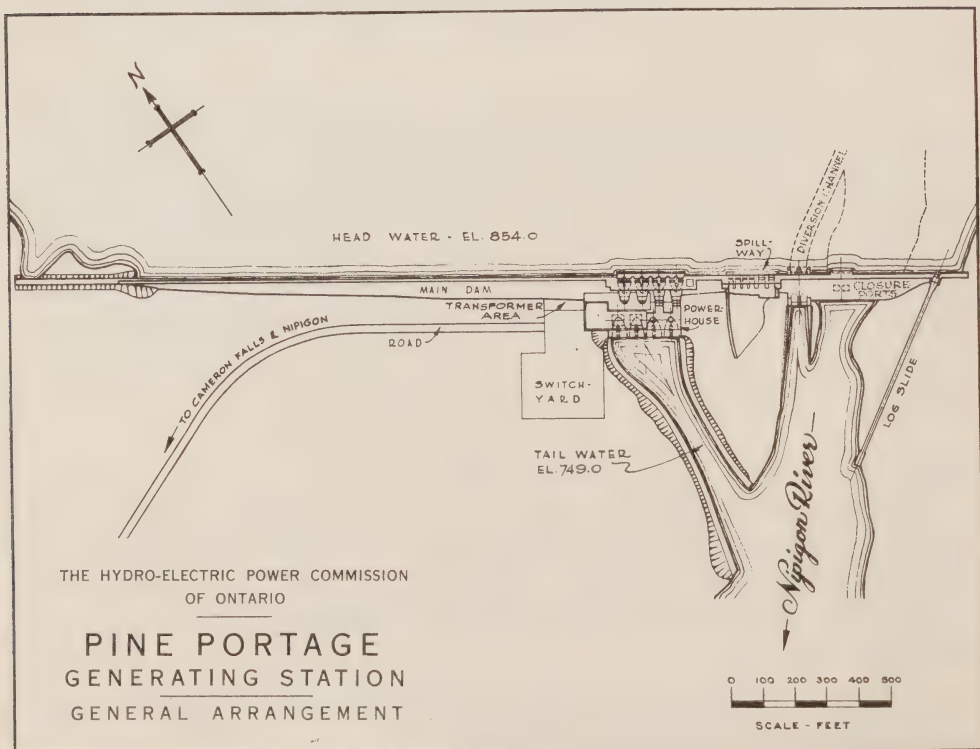
PINE PORTAGE GENERATING STATION—NIPIGON RIVER

The Pine Portage hydro-electric development, where one unit was placed in service on July 17, 1950, and a second unit on September 15, 1950, provides additional generating resources for the Thunder Bay System. The installed capacity is 60,000 kilowatts but this will ultimately be doubled by the installation of two more units.

The station is situated on the Nipigon River about 12 miles up-stream from Cameron Falls Generating Station and is the third and final project for the development of the whole potential of the Nipigon River between Lake Nipigon and Lake Superior. It is connected to Alexander Generating Station and to Port Arthur by 13 and 90 miles of transmission line, respectively.

The project comprises a gravity-type concrete dam approximately 3,100 feet long with a maximum height of 140 feet in which the intake, spillway, and log-chute head-block are incorporated; a flood-water channel below the spillway; a power-house immediately down-stream from the dam on the west bank of the river; and a tail-race channel 600 feet long carrying the discharge from the draft-tubes to the Nipigon River.

A general plan of the project accompanies this description.





PINE PORTAGE GENERATING STATION—Summer 1950

Dewatering the Site and Closure Operations

To dewater the site of the dam a diversion channel (approximately 800 feet long) was excavated in the rock bluff on the west bank of the River. A section of the main dam with two concrete diversion ports was constructed in the channel with provision for steel gates which were later used to cut off the flow through the diversion channel when the dam was completed.

Rock-filled timber-crib cofferdams were then built across the river upstream and down-stream from the limits of the dam and the river-flow was diverted through the channel.

The closure operation presented an exacting problem because it was necessary to maintain sufficient flow in the river at all times to ensure continuous operation of Cameron Falls and Alexander Generating Stations down-stream. It was found that this could be accomplished by carrying out the closure in three stages. In addition to the diversion ports mentioned previously, two closure ports of equivalent size were constructed in the dam approximately half-way vertically between the diversion ports and the spillway. Due to the steep slope of the river up-stream from the dam and the high banks through which it travels, it was possible to close off the diversion ports and raise the water to provide sufficient flow through the closure ports in a matter of hours. The second stage of the closure was accomplished by slowly throttling down the flow through the closure ports as the head-pond level rose. This maintained satisfactory flow for the stations down-stream until the head-pond reached the level of the spillway. The closure ports were then closed, and flow to the plants down-stream was maintained by adjusting gates and stoplogs in the spillway sluices.

The two steel gates used first in the diversion ports and later in the closure ports were finally installed permanently in the spillway.

The Dam

The main dam, except for 400 feet at the west end, has a standard gravity cross-section with an up-stream batter of 1 to 24 and an $8\frac{1}{2}$ to 12 sloping face on the down-stream side. The dam has a top width of 12 feet west of the head-works and 14 feet 9 inches east of the head-works. The westerly 400 feet of the dam consists of a concrete bulkhead with a vertical up-stream face and a down-stream slope $8\frac{1}{2}$ to 12. The elevation of the top of this bulkhead is 3 feet below that of the remainder of the dam. The bulkhead is covered with an earth fill having an up-stream slope of $2\frac{1}{2}$ to 1, a down-stream slope of 3 to 1, and a top width of 20 feet. As several parts of the dam were constructed with formwork supported by Bailey bridging, the vertical construction joints were spaced throughout to accommodate this type of construction. The joints were spaced alternately at 36 feet and 33 feet 4 inches. Horizontal construction joints were established at intervals not exceeding 50 feet. Some of the pours near the bottom of the dam were considerably less than this.

Steel water-stops 16 inches wide and $\frac{1}{4}$ inch thick were placed in both the horizontal and vertical construction joints near the up-stream face. Half the width of the water-stop was embedded in the first block of concrete poured and before the adjacent block was poured the entire vertical face of the first pour and the exposed half of the vertical water-stop were treated with a heavy coat of mastic. Semi-circular drains of $7\frac{1}{2}$ -inch radius were located directly down-stream from the water-stops.

The dam is provided with inspection tunnels, one running west from the power-house for a distance of 700 feet and one running east from the diversion ports for a distance of 300 feet.

Head-Works and Penstocks

The head-works section consists of four intakes, one for each unit. Water from the forebay enters each intake through two openings which merge before reaching the penstocks. Steel trash-racks are installed on the up-stream face of the head-works. Head-gates controlled by separate motor-driven hoists are provided for each intake.

The penstocks are 20 feet in diameter with a thickness of $\frac{3}{4}$ inch throughout. They are encased in concrete envelopes having a minimum thickness of about 18 inches. The purpose of the concrete envelope is to protect the steel, eliminate periodical maintenance, and prevent expansion and contraction of the penstocks due to large variations in temperature. Only those portions of the penstocks for the third and fourth units which had to be embedded in the head-works concrete were installed.

Power-House

The power-house is a steel and concrete structure 175 feet by 60 feet and is located close to the face of the dam.

Two single-runner, vertical-shaft, Francis-type turbines fabricated by Canadian Allis-Chalmers Limited, each with a rated capacity of 41,000

horsepower under a head of 105 feet at a speed of 109.1 rpm controlled by Woodward governors, are supplied through steel scroll-cases connected to the penstocks. Water discharged from the turbines passes through concrete elbow-type draft-tubes to the tail-race below the power-house. The draft-tubes have been constructed for the third and fourth units that will be installed at some future date.

The generators, built by the Canadian Westinghouse Company, are rated at 33,000 kilovolt-amperes at 90 per cent power factor, 13,800 volts, 60 cycles. In construction they are of the umbrella type and totally enclosed. Rototrol-type voltage regulators are used on these generators. They are the first of this type installed in Canada on generators driven by water-turbines.

The transformer bank is installed immediately west of the power-house. This bank comprises three transformers, each rated 22,000 kilovolt-amperes, single-phase, 13,800-13,800 to 138,000 Y volts. A fourth transformer has been provided as a spare for the bank.

The low-voltage switching equipment, supplied by the English Electric Company is of the air-blast type.

The power-house is equipped with a travelling crane having a capacity of 180 tons. There is an erection bay on the west end of the power-house to provide space for the erection and dismantling of turbines, generators, and transformers.



PINE PORTAGE GENERATING STATION—Power-house, switchyard, spill-way, and closure ports, June 1950

The control-room is located on the main floor of the power-house and is provided with a lighting system which gives the operator a clear view of the instruments on the switchboard unaffected by reflected light. The floor above the control-room provides accommodation for offices, storage, and the heating and ventilating equipment.

Log-Chute

An important feature of the development is the log-chute which will be required to pass as much as half a million cords of pulpwood and sawlogs during the course of each driving season. The head-block of the log-chute is located on the east bank of the river. The chute itself is of steel construction and discharges into the river approximately 650 feet down-stream from the dam. The flow through the head-block is controlled by a Taintor-type gate.

Spillway

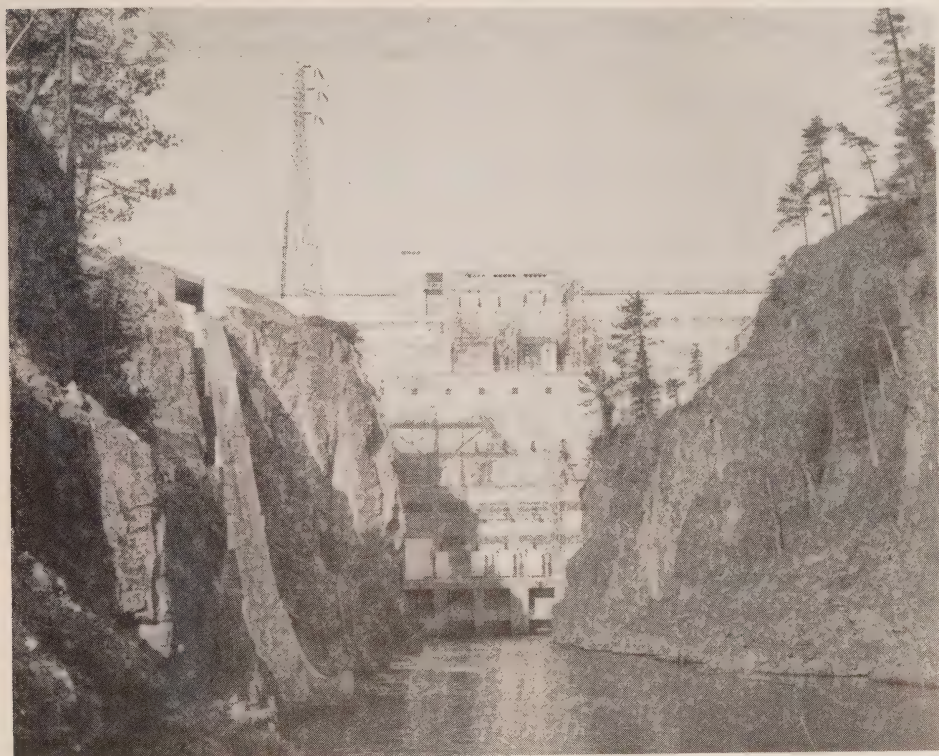
The spillway consists of four sluices controlled by timber stoplogs and two sluices controlled by steel gates, providing a total discharge capacity of 42,000 cubic feet per second. The spillway discharge is guided into the river down-stream from the dam by two concrete training-walls.

Colony

Living quarters for the operators are provided in a group of houses which were added to the existing colony at Cameron Falls.



PINE PORTAGE GENERATING STATION—Power-house and spill-way, June 1950



GEORGE W. RAYNER GENERATING STATION—Main dam and power-house,
June 1950

NORTHERN ONTARIO PROPERTIES

(Northeastern Region)

GEORGE W. RAYNER GENERATING STATION—MISSISSAGI RIVER

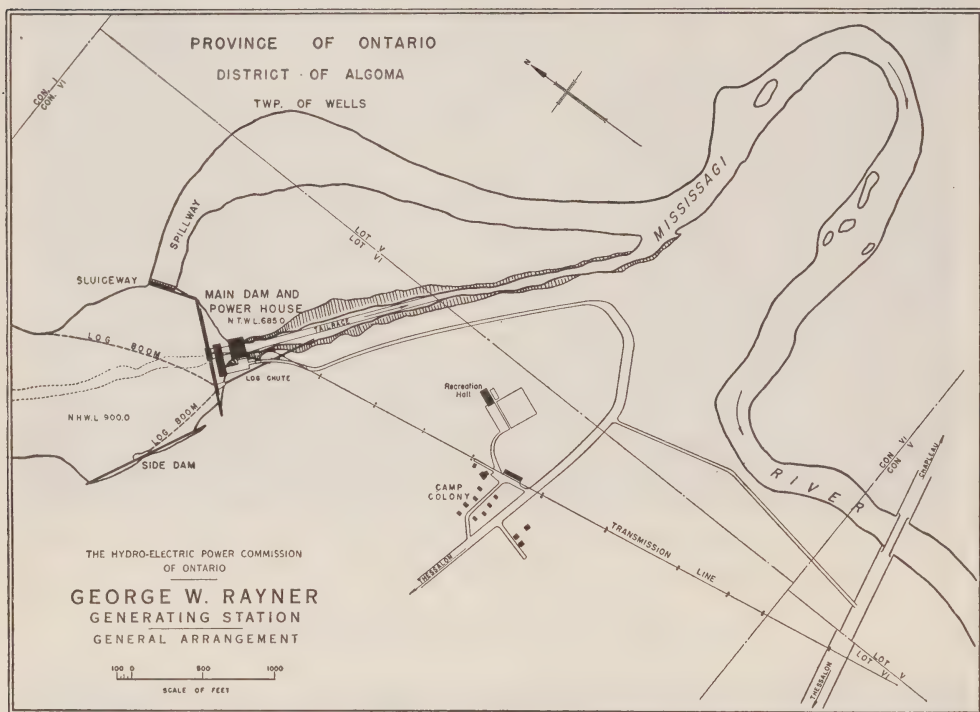
The George W. Rayner Generating Station (formerly known as Tunnel) is the first of four projects for the development of the potential of the Mississagi River. It was officially opened on June 14, 1950, the first unit carrying commercial load on July 15 and the second on July 24, providing an additional supply of 42,000 kilowatts to the Northeastern Region.

The station is located about 18 miles north of Thessalon at the head of a deep, narrow gorge through which the river flowed in a series of turbulent rapids. The station operates under a head of 210 feet, secured by flooding rapids for a distance of 12 miles up-stream but mostly from the natural fall immediately above and through the gorge.

The project proper comprises a gravity-type concrete main dam 996 feet long including the head-works and log-chute head-block; a concrete side dam 1,006 feet long; a concrete sluice-way section 198 feet long with a new flood-water channel returning to the river about 3,000 feet down-stream from the main dam; and a steel log-chute 700 feet in length. The switching

structure is centrally located on the down-stream face of the main dam. An unloading crane with a capacity of 40 tons, situated on the edge of the cliff, lowers equipment through a hatch in the power-house roof directly to the main floor.

A general plan of the project accompanies this description.



Construction was authorized by the Commission on February 19, 1947. A contract was awarded to the Rayner Construction Company Limited on September 12, 1947, and work started in the field the following October.

Clearing

Brush and timber were cleared from 4,380 acres of land that would be flooded by the head-pond and from 180 acres at the station site.

Dewatering

A horseshoe-shaped tunnel 30 feet high and 30 feet wide, having a capacity of 24,000 cubic feet per second, was driven through the western wall of the gorge for 900 feet to pass the stream-flow around the site during construction. An up-stream rock-filled timber-crib cofferdam 65 feet high, containing 13,200 cubic yards of rock, diverted flow of the river into the tunnel.

This, with a down-stream cofferdam 28 feet high spanning the gorge above the tunnel exit, enclosed the power-house and dam site.

Water entered the tunnel through a concrete structure 56 feet wide and 50 feet high, having two portals, each 15 feet wide and 30 feet high, separated by a centre pier. When the dam had been built to its ultimate height these two portals were closed by steel gates, each over 50 tons in weight. Thus the head-pond was raised and the flow was diverted through the sluice-ways and flood-water channel. After closure, a concrete plug 60 feet in length was poured in the tunnel on the projection of the base-line of the main dam.

Main Dam

The main dam rises 239 feet above its lowest point with a maximum base width of 186 feet. It is of the non-overflow, concrete gravity-type having a batter of 1 to 24 on the up-stream face, a 20-foot top, and a down-stream face, vertical for 18 feet, then on a batter of $8\frac{1}{2}$ to 12. Its construction required excavation of 48,500 cubic yards of rock and the placing of 170,400 cubic yards of concrete.

Vertical construction joints are generally 33 feet 4 inches and 36 feet apart with the exception of two pours, 40 feet wide, that contain the head-works. Horizontal joint intervals were generally at 50 to 55 feet. Each block was placed in one continuous pour, the largest of which contained 12,345 cubic yards of concrete. Steel water-stops 16 inches wide were placed across both horizontal and vertical construction joints, 5 feet down-stream from the base-line of the dam. Semi-circular drains, $7\frac{1}{2}$ inches in radius, are located 3 feet down-stream from the water-stops.

Two inspection tunnels connecting with the elevator shaft, and having three exit portals, give access to the interior of the dam. Stresses, strains, and pressures existing in the dam will be measured by instruments embedded therein during construction.

Integral with the main dam and directly up-stream from the power-house, the head-works provides four passages each 12 feet wide, two for each penstock. The head-block is designed as a gravity structure and is equipped with the usual trash-racks, head-gates, and emergency gates.

Side Dam

The side dam, extending up-stream for 1,106 feet from the point where the west end of the main dam closes the west side of the forebay, has a vertical up-stream face, a 5-foot top, and a down-stream batter of $8\frac{1}{2}$ to 12 which intersects the vertical face 3 feet below the top of the dam. Having a maximum height and base width of 45 and 35 feet respectively, the side dam required 8,200 cubic yards of excavation and contains 8,700 cubic yards of concrete.

Power-House and Penstocks

The penstocks are 242 feet long and have an inside diameter of 12 feet. They are made of steel plates tapering from $\frac{1}{2}$ to $\frac{11}{16}$ inch in thickness and are encased in reinforced concrete envelopes 18 inches thick. A reinforced-

concrete slab, 12 inches thick, spans the space between the two penstock envelopes and forms with them and the face of the dam a service tunnel for cables, etc. from the power-house to the switching structure.

Spanning the gorge at the toe of the main dam with a length of 144 feet, the power-house has a reinforced-concrete substructure 112 feet wide with a structural-steel frame, reinforced-concrete superstructure. Two 29,000 horsepower, Francis-type, single-runner, vertical-shaft turbines were manufactured by Canadian Allis-Chalmers. They are actuated by Woodward governors. They operate under a net head of 210 feet and require 1,400 cubic feet per second under full load. The units are spaced 40 feet between centres and each is directly connected to a 23,500-kva, 13,800-volt, 211.8 rpm., 3-phase, 60-cycle, vertical-shaft generator manufactured by the Canadian Westinghouse Company.

The power-house is equipped with a 100-ton travelling crane having a 25-ton auxiliary hoist. An erection bay is provided at the east end of the generator-floor.

Air-conditioned control-rooms, a battery-room, a communications-room, a workshop, a lunch-room, and locker- and wash-rooms are all located on the generator-floor level.

The transformer bank is located, at generator-floor level, on the deck at the down-stream side of the power-house. The four main transformers (one of which is a stand-by) are forced-oil, water-cooled, 15,500-kva, single-phase, 60-cycle, and transform from 13,800 volts to 138,000 volts. They may be moved into the generator-room by transfer truck. The one oil circuit-breaker, located on the switching-deck, is rated at 138 kv, 800 amperes, and is of the type having three poles in a single tank.

Tail-Race

To regain approximately 30 feet of the natural fall in the gorge from the down-stream side of the power-house to the more or less tranquil reach of the river about 3,000 feet down-stream, a tail-race channel was excavated with a designed width of 40 feet and a length of 1,650 feet. The work was done after the closure had been made in the diversion tunnel and the flow of the river had been transferred to the flood-water channel. Below the hard layer of cemented boulders that paved the natural channel, the material excavated was largely sand and gravel with a small amount of rock at certain points where the walls of the gorge projected into the line of the new channel.

Log-Driving Facilities

The head-pond has a controlled storage of 70,000 acre-feet with a draw-down of 15 feet and, at maximum level, creates slack water up-stream for a distance of 12 miles. Forestry operations of great volume in the area drained by the river necessitate provision for the passage of great quantities of sawlogs and pulpwood in the driving season. Log-booms having a total

length of 2,000 feet are provided to guide logs to the log-chute portal during the drive and to protect the head-works. Successful passage of the drives at the development posed a problem of great difficulty because of the variation in head-water level, the high head, the almost vertical walls of the gorge, and the confined width of the tail-race channel into which the logs had to be discharged.

To assist in the design of a satisfactory log-chute, a model on a scale of 1 to 24 was built in the Hydraulic Laboratory of the University of Toronto. A V-type steel log-chute, 6 feet high and 7 feet deep, was designed on the basis of the results of the tests on the model. It has a length of 726 feet with a head-block, 36 feet long, and a tail-block, 90 feet long, both of concrete.

The entrance is equipped with a steel Taintor-type gate to control and conserve water at all stages of level in the head-pond. For a great part of its length the chute has a fall of $67\frac{1}{2}$ feet for 100 feet horizontally and the logs attain a velocity of approximately 100 feet per second at the exit from the chute. During the timber-drive in the summer of 1950, the chute functioned very satisfactorily.

TRANSFORMER STATIONS AND TRANSMISSION LINES

During 1950 there was much activity on work instructions carried over from 1949 and new jobs allocated within the fiscal year. About 400 work orders for station construction were brought to the final stages where the equipment could be placed in service. The net increase in transmission lines throughout the systems (excluding rural lines) amounted to 1,407 route miles.

Details of the main projects constructed or under construction during 1950 follow. Brief details of less important projects are given in Appendix IV which also contains the following tabulations.

1. Changes in transformer capacity during the fiscal year ended December 31, 1950.
2. Total transformer step-down capacity at December 31, 1950.
3. Transmission line changes and additions made during the fiscal year ended December 31, 1950.
4. A section relating to communications—telephone, power-line carrier, telemetering circuits, and radio facilities.

SOUTHERN ONTARIO SYSTEM

Facilities to Receive Power from Des Joachims and Otto Holden Generating Stations

Construction of the 1,250 circuit miles of 230-kv lines required to transmit Des Joachims and Otto Holden Generating Stations power to southern

Ontario was continued. Of the above mileage, 866 circuit miles were made alive in 1950. Included were the lines from Des Joachims to Richview, Richview to A. W. Manby Transformer Station and Service Centre, Richview to Burlington, Burlington to Mount Hope, Otto Holden Generating Station to Des Joachims, and Des Joachims to E. V. Buchanan Transformer Station via Minden.

Construction work is in progress at Essa Transformer Station which is located on the 230-kv line from Des Joachims to E. V. Buchanan Transformer Station. This station is scheduled for service in July 1951 when it will commence delivery of Des Joachims power to the Georgian Bay Division at 115 kv. Minden Switching Station, which is required for interswitching the 230-kv circuits from Des Joachims to southern Ontario, was first placed in service in July 1950.

In May 1950, a 115-kv, double-circuit, 60-cycle line was made alive between A. W. Manby Transformer Station and Service Centre and Scarborough Frequency-Changer and Transformer Station. This line provides a tie between the Eastern Ontario Division and the Des Joachims lines.

E. V. Buchanan Transformer Station

The third 25,000-kva frequency-changer unit, with its associated transformers and equipment, was placed in service in October 1950. Progress was made on the provision of facilities to receive 230-kv, 60-cycle power from Des Joachims and Otto Holden Generating Stations. The first 90,000-kva, 60-cycle autotransformer and associated switching equipment to receive 230-kv, 60-cycle power from Burlington Transformer Station, and also from Des Joachims over the direct line from Minden, was placed in service in August 1950 and the associated synchronous condenser in September 1950. The second 90,000-kva autotransformer went into service in October 1950 and the second condenser in December 1950. Work is continuing on additional 230-kv and 115-kv line switching equipment. This will go into service during 1951.

A. W. Manby Transformer Station and Service Centre

In July 1950 230-kv, 60-cycle power was first delivered to A. W. Manby Transformer Station and Service Centre from Des Joachims Generating Station. Two 90,000-kva, 230/121/13.2-kv autotransformers and the two 48,000-kva synchronous condensers mentioned in the 1949 Report were placed in service on July 4, 1950. The remaining facilities required to take delivery of Des Joachims power were expected to be placed in service in 1951.

Burlington Transformer Station

At Burlington Transformer Station, 230-kv switching equipment was placed in service in August 1950. This equipment permitted the supply of 230-kv, 60-cycle power to E. V. Buchanan Transformer Station when power was received direct from Des Joachims and tied in with A. W. Manby Trans-

former Station and Service Centre. Also, 115-kv, 25-cycle switching equipment for power supply to Allanburg Transformer Station was placed in service on the same date. Work was progressing on the installation of two 90,000-kva, 3-phase, 60-cycle, 230/121/13.2-kv autotransformers and one 48,000-kva, 60-cycle condenser. These were expected to be placed in service during the first half of 1951.

Facilities to Receive Power from Chenaux Generating Station

In November 1950, Chenaux Generating Station commenced delivery of 230-kv power to Ross L. Dobbin Transformer Station where the power is stepped down to supply the 115-kv system.

The facilities placed in service in November included 28 miles of 230-kv line from Chenaux to a point on the Barrett Chute-Oshawa line near Mountain Chute, and Ross L. Dobbin Transformer Station comprising one 70,000-kva, 230/115/13.2-kv autotransformer. A second similar autotransformer was authorized for installation in 1951.

Two 25,000-kva, 115/26.4-kv, 60-cycle transformers were installed at Scarborough Frequency-Changer and Transformer Station to supply 60-cycle power to adjacent areas. These replace two 15,000/27,000-kva transformers temporarily installed. The construction of facilities to receive Chenaux power at 115 kv at this station was proceeding and was scheduled for service in January 1951.

New 115-kv Stations and Lines

Six new 115-kv transformer stations were completed and three were under construction in 1950. In addition, about 120 miles of 115-kv lines were placed in service in 1950. Details of these stations and lines are given in Appendix IV.

Facilities to Receive Power from Fuel-Electric Generating Stations

Temporary Generating Stations

All the facilities mentioned in the 1949 Report under this heading were placed in service in 1950.

These comprised line and station facilities to connect to the system the emergency fuel-electric generating stations at Scarborough, Hamilton, Thorold, and Chatham.

Richard L. Hearn Generating Station Lines

Work is proceeding on the installation of additional 115-kv switching equipment at Toronto-Esplanade Transformer Station and Toronto-Strachan Transformer Station, and the construction of approximately 1 mile of 4-circuit, 115-kv steel-tower line and approximately 1 mile of 115-kv underground cable.

J. Clark Keith Generating Station Lines

Work was started on a 230-kv, double-circuit, steel-tower line, 118 miles long, from E. V. Buchanan Transformer Station to J. Clark Keith Generating Station. The transmission line when completed in 1951 will be operated initially at 115 kv over a single circuit.

THUNDER BAY SYSTEM

Pine Portage-Fort William Lines and Stations

The 115-kv line from Pine Portage Generating Station via Alexander Generating Station to Port Arthur was placed in service in July 1950. The line was extended to Fort William in October 1950. Associated with this line is the 115-kv terminal switching equipment at Fort William Transformer Station. The installation of equipment at Port Arthur Transformer Station is in progress and scheduled for completion by June 1951.

NORTHERN ONTARIO PROPERTIES

Facilities to Receive Power from George W. Rayner Generating Station

The 115-kv transmission line from George W. Rayner Generating Station to R. H. Martindale Transformer Station referred to in the 1949 Report was completed and placed in operation in July 1950.

Interconnection with Southern Ontario System

A 115-kv line from Otto Holden Generating Station to Crystal Falls Generating Station via North Bay was placed in service in October 1950. This, via the existing 115-kv line from Crystal Falls Generating Station to R. H. Martindale Transformer Station, provides the first channel of interchange between the Southern Ontario System and the Northeastern Region of the Northern Ontario Properties.

A new 16,000-kva, 115/22-kv transformer station at North Bay was also placed in service in October 1950. This station supplies power from the 115-kv system to the local 22-kv system of the Nipissing District.

Interconnection with Thunder Bay System

A 115-kv line between Moose Lake and Dryden, a distance of 105 miles, is under construction. Also under construction is a 115/44-kv transformer station at Dryden which will have a capacity of 16,000 kva. At Moose Lake, additional 115-kv switching is being installed to connect the line to the Moose Lake Transformer Station. This project, when completed in April 1951, will establish a connection between the Thunder Bay System and the Patricia District of the Northern Ontario Properties.

CONSTRUCTION OF LINES IN RURAL OPERATING AREAS

In Section IV of the Report will be found two tables, the first entitled "Summary of Rural Line Construction" and the other "Miles of Line, Number of Customers—December 31, 1950."

These tables show a total net increase during the fiscal year of 2,733 miles of new primary line. In addition, 690 miles were authorized and under construction.

RENAMING OF COMMISSION STATIONS

The Commission renamed a number of generating stations and transformer stations after men who, through their association with and services to Provincial and Municipal Hydro affairs, have contributed to the success of the enterprise.

Sir Adam Beck-Niagara Generating Station No. 1, formerly known as Queenston-Chippawa

Sir Adam Beck-Niagara Generating Station No. 2

E. V. Buchanan Transformer Station, Westminster

Ross L. Dobbin Transformer Station, Peterborough

Richard L. Hearn Generating Station, Toronto

Otto Holden Generating Station, La Cave

J. Clark Keith Generating Station, Windsor

A. W. Manby Transformer Station and Service Centre, Islington, formerly known as Kipling Transformer Station and Islington Service Centre

R. H. Martindale Transformer Station, Sudbury

George W. Rayner Generating Station, formerly known as Tunnel

SECTION VI

RESEARCH AND TESTING ACTIVITIES

THE Commission regards research and testing as essential services and their scope is being steadily extended. Testing for acceptance of newly installed equipment and for control of the quality of materials purchased ensures the optimum performance of new generation, transmission, and distribution facilities, and the adequacy of maintenance and safety measures. A well-organized technical information service is maintained both for the Commission and, through the regional offices, for the municipalities. The primary objective of all these activities is to supply the Commission's customers with an adequate, continuous supply of electric power at minimum cost.

The Commission's research facilities were used extensively in 1950 in tests related to current construction and to new power equipment coming into service. In addition, however, steady progress was made in numerous research undertakings and in the improvement and application of such recent Commission developments as the linascope, the bolometer, the temperature-rise simulator, and the soniscope. Facilities for both testing and research were further extended by design and construction of numerous items of equipment and by purchase of commercial equipment when suitable.

Co-operative research programs were continued with other organizations having similar interests. Included were problems of deterioration of transformer insulating oil and of the solid insulation of generator coils, study of methods of testing insulating varnishes in order to prepare specifications, the obtaining of performance records of an experimental domestic heat-pump installation, and investigation of applications of electricity in agriculture for such purposes as soil-heating and crop-drying.

Towards the end of the year the transfer was completed of the work and staff of the Approvals Laboratory to the jurisdiction of the Canadian Standards Association. Consequently the safety testing of electrical equipment and appliances formerly conducted by the Commission on behalf of the Canadian Standards Association has now become entirely the responsibility of the latter organization.

Brief summaries of some of the varied projects pursued will serve to indicate the scope and general character of the Commission's recent research

and testing activities. Direction has been given to these activities by research project panels made up of engineers and technical men with specialized knowledge and experience.

Utilization of Electricity

Extensive laboratory and field tests indicated the superiority of a new thermostat for domestic water-heaters and its use to replace the present thermostat in future Hydro installations was recommended. The problem of increasing the storage capacity of domestic water-heaters to permit charging during night-time periods only was studied.

Experimental low-voltage wire-mesh soil-heating grids designed by the Commission were prepared for installation in three commercial green-houses and at Ontario Agricultural College, in co-operative tests with the College.

Field tests of an experimental hay-drier were conducted. The possibility of using the heat-pump principle for crop-drying was considered but rejected on economic grounds.

Detailed operating records were obtained throughout the 1949-50 heating season for the experimental domestic heat-pump installed co-operatively with the University of Toronto. Some modifications were subsequently made and the studies are being continued.

Illumination

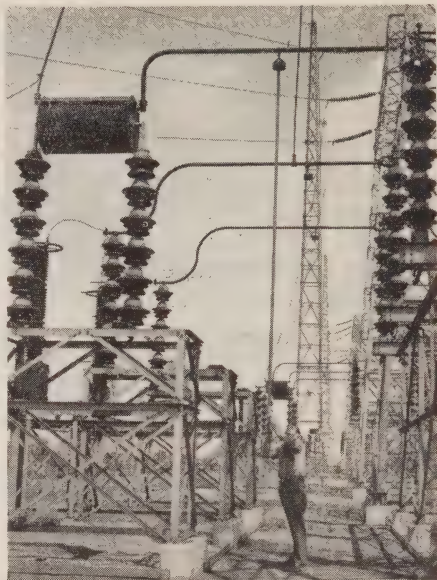
Several materials used for luminous and louverall ceilings were tested extensively for effectiveness. Flicker in lighting, caused by sudden connection of large loads, was studied. Two meters for recording the intensity of daylight illumination were made and used to study the relation between electric load and the weather.

Lightning Protection and Surge Phenomena

Further investigations were made to ensure protection of equipment from both lightning and switching surges. Surge transfer through distribution transformers was studied under various load conditions. Numerous flashover tests were conducted on watt-hour meters and service-entrance breakers. Data were collected on 110-kv lightning-arrester operations at 36 southern Ontario locations, using magnetic-link surge-current recorders. The effectiveness of isolating transformers to protect generators from line surges was evaluated from klydonograph records. An initial study was made of the causes of excessive distribution-fuse blowing.

Communications and Relaying

The influence of the Commission's power circuits on nearby communication facilities was under constant review. The effects of power-line noise and shielding on television reception were studied, and special equipment and techniques for investigating complaints were developed and used. Work on radio interference, with emphasis on sources of corona noise, was continued in both laboratory and field.



Left: Acceptance test of electrical insulation being made on a new cable
Right: Klydonograph being installed on equipment at a 230-kv transformer station to record lightning surges

Problems of inductive co-ordination, especially involving telegraph, telephone, and carrier-operated control-circuits, were investigated co-operatively, and some conditions were mitigated by the installation of suitable harmonic filters. A detailed study was begun, with encouraging results, of the stability of voltage and phase indication provided by high-potential couplers, to determine whether they can be used for purposes of synchronizing and relaying.

Grounding

Specifications were revised and recommendations made for grounding of air-switches to protect operators adequately against flashover hazards. The Division designed simple ground-detectors for use on 575- and 2300-volt ungrounded distribution systems. Other activities included inspection of temporary grounds associated with new construction, recommendations for permanent station grounding arrangements based on soil resistivity and trial rod measurements, and checking of ground resistances when stations came into service.

Studies were made of the electric current lethal to livestock, to assess the hazards in barns having exposed metallic equipment. Suitable apparatus was assembled, and was used in co-operation with the Ontario Veterinary College to perform controlled electrocution of animals. From the tests it was concluded that faults on properly-fused secondary equipment grounded in accordance with the Commission's present regulations should not produce lethal voltages. The hazard due to all types of faults is, in the light of existing data, a minimum under the present regulations.

Safety

Some of the specific projects undertaken during 1950 were investigation of the adequacy of standing instructions for the handling of wood poles near live circuits; the design and recommendation for use of low-voltage (12-volt) extension lamps in turbine-wheel pits, transformer and oil circuit-breaker tanks, and so forth; and the testing of live-line tools under adverse weather conditions to determine more closely the hazards involved and the amount of maintenance required to ensure safety.

Investigations for Frequency Standardization

Investigation was continued of methods of conversion to 60-cycle service of selected items of customers' 25-cycle electric equipment. Included were oil-burners, sump-pump motors, various electrical appliances, and certain types of frequency-sensitive controls.

Radiation of X-ray machines before and after frequency change was determined. Tests were made of 25-cycle distribution transformers to assess their suitability for 60-cycle service. The operating characteristics of small motors of both single and dual frequency were determined and the performance of small frequency changers was tested.

Fault Location and System-Disturbance Recording

The use of portable linascopes to locate faults in open-wire transmission and communication circuits was extended. New circuits were checked for proper phasing and the absence of construction grounds. Refinements were made both to the portable units and to the automatic linascope installed at Leaside Transformer Station and operating techniques were improved.

Assembly and testing were begun of a number of 6-element mechanical oscillographs to record system disturbances automatically. An improved electronic undervoltage starting-relay was developed for this application. A method was devised by which the Power Supervisor can determine the load-angle between a generator and frequency changer 200 miles apart. The aim is to permit operation of the power network close to the limit of its stability when required.

Conductor Joints and Connections

Research and testing of joints and connectors were continued to ensure that the life of transmission lines would not be shortened by premature failure of these components. New types of joints developed and tested included compression dead-ends and compression joints for the less common sizes and stranding of conductors. Work progressed on fundamental tests of dissimilar metal contacts using different cleaning procedures. Tests on faulty joints established the theory that the high resistance of a compression joint is usually due to relatively high resistance of a few of the strands.

In continuation of previous work, the joints in certain of the Commission's 110-kv and 220-kv circuits were checked for over-heating by means of the bolometer developed by the Commission. Construction of a more efficient bolometer, weighing only half as much as the original instrument, was begun.

Testing Electrical Insulants

Various commercial materials—such as friction tapes, varnished cambric tapes, and substitutes for asbestos paper—were tested and compared as to their suitability as solid electrical insulants for particular applications and their conformance with standard specifications. The testing of between-turns insulation of transformer coils was improved by the construction of an instrument suitable for measuring the voltage between adjacent turns without appreciably disturbing the voltage distribution. Several specimens of plastic (polyethylene) -sheathed conductors were tested for performance and properties under various conditions.

Methods of testing electrical insulating varnishes and oils were investigated. Many brands of insulating varnishes were tested and the interaction of hot insulating oils and varnishes was studied. The effectiveness of a commercial compound for inhibiting oxidation of both new and reconditioned insulating oils was investigated. An extensive program of tests on equipment and filter materials for reconditioning used oils was partially completed.

Electric Power Equipment

On some of the Commission's frequency changers, operating tests were made of field-forcing equipment intended to increase their power-carrying capacity during brief periods of incipient instability. The measurement of the thermal resistivity of soil along the routes of proposed underground power cables was facilitated by new apparatus designed and built by the Commission.

Electrical Measurements and Measuring Instruments

Development work in electrical measurement involved mainly new measuring techniques as applied to calibration and standardization, and to physical measurements employing electrical methods. Related activities were design and construction of special equipment required for investigation work such as, for example, the present program of testing insulating oils.

Testing Apparatus Insulation

Studies of apparatus insulation were focussed on the development of non-destructive testing methods and techniques for determining the extent of deterioration of generator insulation. The problem is important because the original insulation of some of the Commission's oldest generators is believed to be nearing the end of its useful life. A program was arranged in collaboration with other electrical utilities concerned with similar problems. The Commission's equipment and techniques for non-destructive testing were improved and important data were obtained from both old and new generators.

An improved compact model of the Commission's unbalanced-bridge power-factor test set was built and functioned satisfactorily. Accuracy of determination of the condition of the electrical insulation of other power apparatus increased with experience.

Characteristics and Tests of Masonry Materials

Laboratory tests of fly-ash concrete were carried to concluding stages, and a field trial provided pertinent data on the handling, placing, heat of

hydration, and strength development characteristics of this concrete when mass-cured.

Numerous laboratory tests were performed in comparative evaluations of five Canadian cements, of various stearate admixtures to increase the water-repellency of mortars, of workability agents for mortars, and of available form coatings and parting fluids.

Masonry Materials Testing: Methods and Equipment

Facilities were installed in the laboratory which will enable petrographic investigations to be made in examining and classifying foundation rock, concrete and concrete aggregate, pozzolans, cements, and other inorganic materials. A more complete knowledge of mineral composition, texture, crystal structure, and behaviour of these materials under given conditions will thus be obtainable.

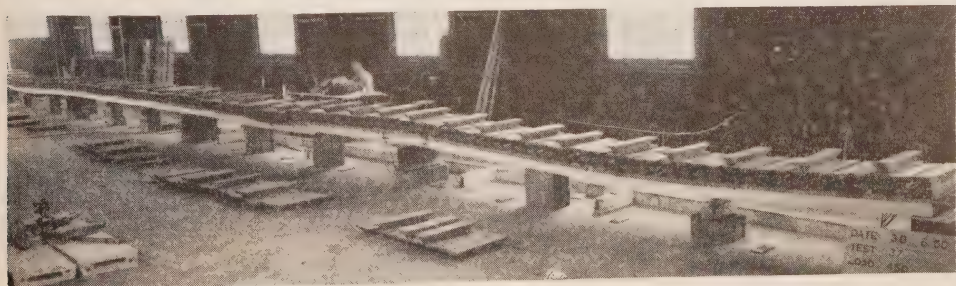
Significant progress was made in the development, improvement, and efficient use of equipment for evaluating consistency, rate of stiffening, and air permeability of concrete. Also, research on capping materials for concrete test-cylinders resulted in the compounding of a superior sulphur mixture which greatly facilitates routine compressive-strength testing.

Masonry Construction

The possibility of increased use of light-weight concrete in Commission structures prompted a general investigation of these materials, including a survey of the literature and supplementary laboratory tests. In addition, comprehensive reports were prepared on tests of Ontario brick and on lathing and plastering practices.

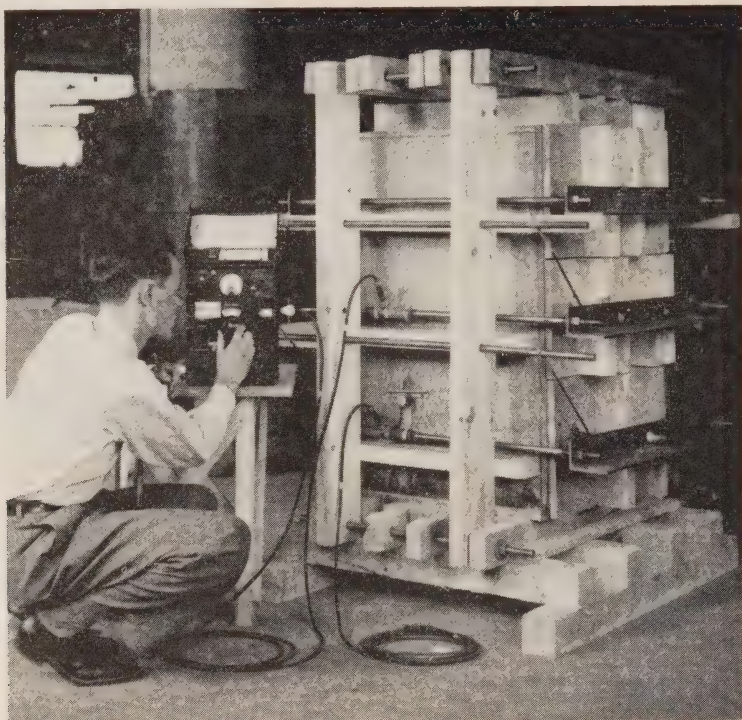
Durability and Repair of Masonry Construction

With more extended use of the soniscope developed and steadily improved by the Commission, this instrument has gained recognition as an outstanding tool for studies of concrete. Surveys of concrete structures served to demarcate deterioration resulting from long service, and in one instance from fire, and were useful in providing guidance for repairs.



LOADING TESTS OF PRESTRESSED-CONCRETE FLOOR SLAB

This 80-foot span is being tested to failure under conditions simulating actual service. It sustained more than $3\frac{1}{2}$ times design load



**LABORATORY MEASUREMENT OF CONCRETE FORM
PRESSURE**

Information obtained under controlled conditions is applied to
design of forms for mass concrete construction

Other work included the compilation of information on freezing and thawing cycles and temperature gradients experienced by concrete in service, and an investigation of the effect on concrete of sulphate-polluted ground-water which may occur in the vicinity of a coal-storage area.

Concrete Reinforcement

Various instruments were designed and constructed for measuring accurately the load carried by reinforcing bars with a view to improving reinforcement design. The basic measuring techniques under study are based on the bonded elastic wire strain gauge, the unbonded gauge, the differential transformer, and magnetostriction.

Thermal and Elastic Behaviour of Concrete

Sonoscope readings were taken on certain dams, where cracks have appeared, in order to follow any changes in their extent. Studies of alignment and dimensional stability of the Commission's dams and power-houses were limited mainly to instrumentation improvement.

Inspection and Control of Concrete

Inspection and control of the preparation, placing, and curing of more than half a million cubic yards of concrete were required during 1950. Most

of this concrete was used for the completion of the George W. Rayner and Pine Portage developments and the near completion of the Des Joachims and Chenaux developments. Considerable work was also done in acceptance inspection of precast masonry units such as pipe, drain tile, roof and wall slabs, blocks, bricks, cut stone, travertine, and an experimental floor slab. Other activities included the location and selection of suitable aggregates for various projects, and the preparation of specifications and proportions for special concreting. In addition, field studies were conducted to procure data on concrete to confirm and supplement laboratory investigations of such problems as the effect of freezing and thawing cycles and the changes in compressive strength over long periods of time.

Grouting

The methods and materials used throughout the Commission for grouting rock foundations and other porous media were investigated extensively in the laboratory. Test procedures were developed, standardized, and then used in comparative tests of various grouting mixes to determine performance characteristics such as consistency, bleeding, volume change, setting time, segregation, and compressive strength.

Metallurgical Investigations

This work included analysis of the cause of embrittlement of galvanized steel heater-bands at high temperatures and recommendations of preventive measures, examination of samples of superheater tubes and stud bolts from boilers at a steam generating station to detect any change in microstructure due to heating, and inspection of specimens from several turbine and generator-shaft forgings to assess cleanliness and grain refinement.

Noise and Vibration

The program of collecting data on the noise level at various locations throughout the Commission was continued and model tests produced information which enabled a reduction of vibration to be made in certain specific cases. Some assistance also was provided to outside organizations in studying vibration problems and in calibrating instruments.

Corrosion of Metals

In the continuing long-term investigation of corrosion in the Hydro automatic storage water-heater tanks, two new field-test installations were completed, one at London supplied with hard well-water, the other at Chats Falls using the soft water of the Ottawa River. These installations consist of five tanks: one anodized aluminum, one glass-lined steel, and three galvanized steel. Two of the galvanized tanks are cathodically protected and the other, for comparison purposes, has no special features.

Soil Mechanics

Activity was continued in the study of foundation problems, and included investigations of the site for a new engineering building; the route for the tunnel and open cut at Queenston; and various sites for transformer stations, frequency standardization buildings, and tower lines. Data pertaining to

the bearing capacity and stability of the soils, based on extensive laboratory and field tests, were furnished to the design engineers.

Welding

Methods of evaluating the cavitation resistance of weldments used in the repair of hydraulic turbine runners were reviewed. Construction of equipment for accelerated cavitation tests in the laboratory was begun. An important activity was the compilation of information on welding procedures to be followed in the fabrication or repair of such items as penstocks and structural members. New facilities obtained which are applicable to welding studies included a magnaflux unit, an ultrasonic flaw detector, and three capsules of radioactive Cobalt 60 for gamma radiography.

Vibration and Galloping of Transmission Lines

The continuing investigation of galloping emphasized the design and fabrication of instruments to measure components of movement in test lines. Aeolian vibration studies were limited mainly to examination of torsion dampers from the field to determine deterioration after several years' service; further investigation of conducting-rubber damper-washers as a means of reducing the voltage between the dumb-bell and the arm; and a preliminary study of damper requirements on spans between 1,200 and 2,000 feet in length.

Stress Measurement and Analysis

Much of the activity in stress studies was directed towards equipment design and improvement. The stability of resistance-wire strain gauges was investigated and auxiliary equipment designed for their more efficient use. The studies of ice pressure on dams and of concrete pressure on forms were continued.

Line Materials

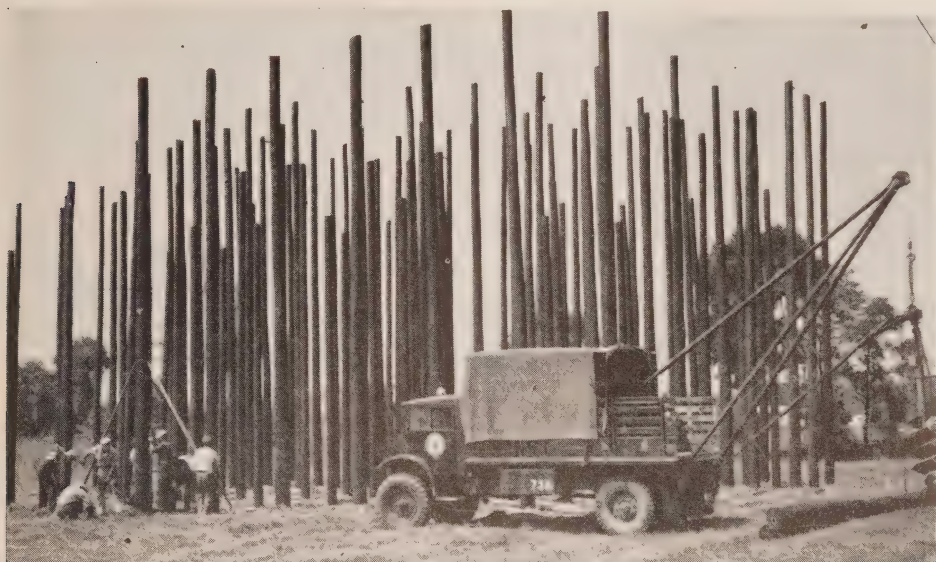
Testing programs were carried out on many items of line hardware to determine their mechanical performance under varying load conditions simulating field service.

Miscellaneous Structural Testing

An important project was related to the proposed prestressed-concrete floor system for a new building at A. W. Manby Service Centre. The investigation covered choice of a suitable steel strand, development of a means of tensioning and anchoring the steel, and finally loading of a full-scale 80-foot test-span to check the design. Other testing pertained to Bailey-bridge components for various new applications, a monorail carrier and bridge-crane system, galvanized woven wire fencing, and cold-formed metal-box studs.

Wood Preservation

The evaluation of various treatments for wood-pole preservation by means of test-plots was continued. Efforts to control creosote bleeding from pressure-treated pine poles included investigation of the effect on



Experimentally-treated poles being erected for field observation of the exudation of chemical preservatives

bleeding of such factors as the treating cycle used, surface temperatures, and degree of saturation of treated portions of the wood. Experimental work was carried out in the investigation of copper borate as a wood preservative. Its toxicity, water solubility, solution stability, and treating characteristics were studied and largely determined.

Brush Control and Soil Sterilization

The program of evaluation of chemical herbicides and soil sterilants was continued. Included were such projects as right-of-way growth-control test-plots, dormant-season basal-spraying studies, and experimental stump-resprouting control.

Thermal Insulation

An extensive program of comparative evaluation of both commercial mineral wool and reflective insulation products was completed to ensure the best selection for the Commission's construction purposes.

Insect Control

The results in northern regions of stream treatment with DDT to control the black fly at the larval stage were sufficiently encouraging in 1949 to warrant the extension of the program in 1950 to include other areas. Improved techniques were used. Field manuals were prepared to enable those in the infested areas to apply control measures with a minimum of supervision.

Plastics

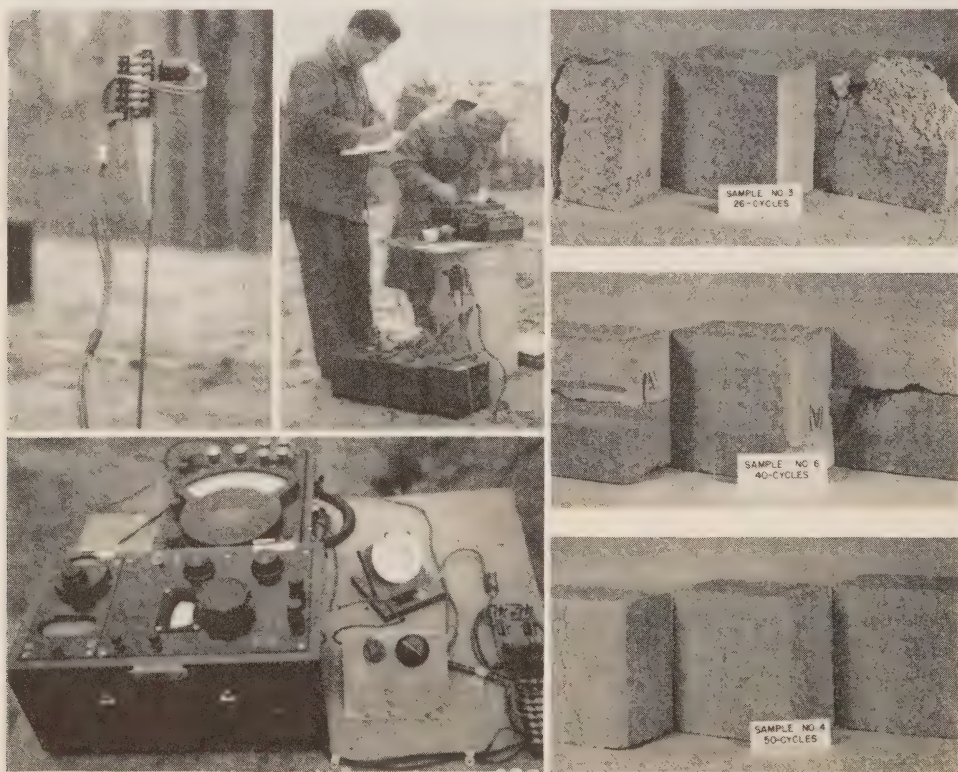
Specifications for the construction and testing of various thermoplastic-insulated and sheathed conductors for control circuits working up to 600 volts were prepared and a useful manual on the handling of such conductors was produced.

Protective Coatings

Comparative tests were made of a wide variety of protective coatings having potential utility for the Commission. Included were standard house paints, fire-retarding paints, and underwater paints.

Evaluation of Data

Statistical methods were used in the design of experiments and in the analysis of data in connection with such work as cement acceptance-sampling, brush control, and evaluation of the initial efficiency of lamps.



Left: Close-ups of "needle" apparatus connections, measuring instruments, and the complete equipment. The apparatus is used to measure thermal conductivity of soil in connection with underground high-voltage cables and heat-pump operation.

Right: The relative durability of different brands of building bricks is tested by their resistance to cycles of freezing and thawing

SECTION VII

PERSONNEL ADMINISTRATION

THE Commission continued to pursue its aim to establish and maintain a relationship with its staff that would ensure a maximum of mutual satisfaction and co-operation. The personal aspirations of the individual employee to achieve success through suitable training and placement continued to receive full recognition. Personnel officers, first appointed in 1948, functioned during 1950 in the Engineering and Administrative Branches, each of the nine regions, the Frequency Standardization Division, the principal construction projects, and the A. W. Manby Service Centre. They contributed materially toward the achievement of the aims which the Commission has long had in view and which motivated the revision of its personnel organization reported on at length in recent issues of this Report.

Collective Bargaining

Collective agreements between the Commission and the Employees' Association and the Federation of Employee-Professional Engineers and Assistants continued in effect. Both of these agreements contain arbitration clauses as the final step in grievance procedure but it is significant to observe that arbitration procedure has never been invoked and the Commission has never suffered a work stoppage. During the year six union agreements were completed and others were in the process of negotiation covering various trades and several hundred workers in construction camps.

Staff

The total staff decreased substantially from a record figure of 22,918 in November 1949 to 20,024 in December 1950. There was also a decrease in the staff employed by contractors on work directly connected with Commission activities. These decreases were due to the fact that work on several major projects was almost finished towards the end of the year. During the fiscal year the number of regular employees increased by 1,278 and reached 10,105 in December 1950.

Training

The Commission maintains a training centre near Toronto. During the fiscal year 532 employees took courses of various kinds. The small staff of permanent instructors and qualified tradesmen temporarily detached from the regions conducted courses for linemen and forestry workers. Courses in first-aid and safe driving were also given as part of the Commission's campaign to reduce accidents to an absolute minimum. Station operators continued studying as in the past both by correspondence and through instruction on the job. Throughout the Commission, employees in various categories were encouraged and assisted to improve their qualifications through study. The principle is becoming ever more firmly established within the Commission as in other large organizations that an effective training program depends very largely on the supervisors in stations, on construction projects, and in drafting rooms and offices assuming their full responsibility as instructors rather than shifting the responsibility to a special instruction staff.

Education

The Commission co-operates with the Provincial Department of Education in the maintenance of eight schools located at Commission properties which are remote from settled communities. These schools provide the children of Commission employees with an education of a very high standard up to the level of grade 10. There are in all 17 classrooms staffed by 17 teachers with 405 pupils under their care.



SCHOOL-ROOM AT DES JOACHIMS

SECTION VIII

MUNICIPAL ELECTRICAL ACCOUNTS

Accounts and Statistical Data of the Municipal Electrical Utilities Operated by Individual Municipalities and Served by The Hydro-Electric Power Commission of Ontario

THE Municipal Electrical Accounts section of this Report presents in summary, and individually, the results of the operations of the local electrical utilities in municipalities owning their own distributing systems and operating with energy supplied by or through The Hydro-Electric Power Commission of Ontario.

Financial statements prepared from the books of these electrical utilities are submitted herein to show how each has operated during the past year, and its financial status at the end of 1950. Other tables give useful statistical information respecting average costs for the various classes of service and the rates in force.

The books of account of the electrical utilities in all municipalities which have contracted with the Commission for a supply of power are kept in accordance with an accounting system designed by the Commission. During the year 1950 this standard method of accounting was installed in Bancroft, Barry's Bay, Erin, Burks Falls, Latchford, and Merrickville.

Periodical inspections are made of the books of all electrical utilities and local officials are assisted in the improvement of their office routine with a view to standardizing, as far as possible, the methods employed. In the majority of the smaller municipalities much of the book-keeping for the electrical utilities is performed by representatives of the municipal accounting department of the Commission as a measure of economy. This arrangement ensures the correct application of the standard accounting system, with resultant uniformity in classification of revenues and expenditures; secures true reflections of the actual operating results for the year; and greatly enhances the comparative values of the reports.

The first financial statement in this section presents consolidated balance sheets for the past eight years. Similar data for earlier years since 1913 were published in the Report for 1943. This consolidated statement combines

the balance sheets of all local municipal electrical utilities receiving power under cost contracts. It is worth noting that the total plant value has increased from \$10,081,469.16 in 1913 to \$156,148,063.75 in 1950, and the total assets from \$11,907,826.86 to \$301,451,648.25. The liabilities have not increased in the same proportion as the assets, rising from \$10,468,351.79 to a maximum of \$52,685,316.86 in 1932, and receding to \$22,935,192.74 in 1950. The reasons for this are the regular fulfilment of debt retirement schedules under serial debenture provisions or by maturity of sinking funds, and also the fact that much of the cost of the increasing plant value has been financed out of reserves and surplus without increasing the capital liabilities of the respective utilities. By this procedure the funds of the systems are used to best advantage. Examination of the results will also show that there is a steady decline in the percentage of net liabilities to total assets; from 88.0 per cent in 1913 to 11.6 per cent in 1950. The equities in the Commission's systems automatically acquired through the inclusion of sinking funds as part of the cost of power are not taken into account in arriving at these percentages.

The second financial statement presents consolidated operating reports for the past eight years and combines the results from all local municipal electrical utilities receiving power under cost contracts. After providing for every cost of operation and fixed charges, including the standard provision for depreciation, the combined operating reports show a net surplus of \$5,492,-597.86 for 1950. (See also diagrams in Foreword to Report.)

The four statements, "A" to "D", following the two consolidated reports show the financial status of each municipal utility and the results of operations, giving classified information respecting revenue, operating costs, number of customers and consumption, cost of power to municipalities, power and lighting rates charged to customers, etc. In statements "A" and "B", the municipalities are arranged alphabetically under each system; in statement "C" all municipalities are arranged alphabetically; in statement "D" the municipalities are arranged alphabetically in four groups—cities, suburban areas, towns, and small municipalities. The population figures given in statements "A", "B", and "D" are taken from the municipal directory published by the Department of Municipal Affairs and relate to the year 1950. In previous issues of the Report the corresponding figures have been for the year prior to that reported on, for example the Report for 1949 listed 1948 population figures. The populations of police villages, formerly not available, are included in this Report for the first time.

Statement "A" presents the balance sheet of each electrical utility. The plant values are shown under the general subdivisions specified in the standard accounting system and the other items on the positive side of the ledger which are included in total assets are self-explanatory.

In conformity with a policy of service at cost to the customer, refunds by cash or credit are made during the year in many municipalities from surplus funds accrued to the credit of municipal services, such as street lighting, water works, sewage disposal, etc. The total thus returned to customers during the year 1950 amounted in round figures to \$205,000.

The reserves for depreciation, and the acquired equity in the Commission's systems, are listed individually and totalled; and under the heading "surplus" are included not only the operating surplus but the accumulation of sinking fund applicable to debenture debt and also the amount of debentures already retired out of revenue.

The depreciation reserve now amounts to 30.7 per cent of the total depreciable plant, while the depreciation reserve and surplus combined have already reached the sum of \$165,727,269.18, being equal to 106.1 per cent of the total plant cost.

Statement "B" shows the detailed operating report for each municipal electrical utility. It gives annual revenues from the various classes of customers; the items of expenditure which make up the total annual expenditure; and the sums set aside for depreciation. The population served by each local utility and the number of customers of each class are also shown.

The item "cost of power" in this statement includes the debit or credit balances ascertained by the annual adjustment of the cost of power supplied to the municipalities by the Commission.*

Of the 321 municipal electrical utilities included in this statement, 317 received from customers revenue sufficient to meet in full all operating expenses, interest, debt retirement instalments, and standard depreciation reserve allocation and to yield an aggregate net surplus of \$5,502,611.32 for the year; three were able to defray out of revenue all such charges except a portion of the standard depreciation allocation aggregating \$9,574.16. In the case of one utility, Thornton, the revenue was less than the total operating expenses, interest, and debt retirement instalments by \$54.30.

Statement "C" presents the cost per kilowatt of the power provided for and delivered to the municipalities by the Commission, and the local rates to customers in force in the respective municipalities, during the year 1950 for domestic service, for commercial light service, and for power service.

Statement "D" presents statistics relating to the supply of electrical energy to customers in Ontario municipalities served by the Commission. It shows the revenue, kilowatt-hour consumption, number of customers, average monthly consumption, average monthly bill, and the net average cost per kilowatt-hour both for domestic and for commercial light service in each municipality. For power service this statement shows the revenue, the number of customers, and the average kilowatts supplied by the municipal utility.† For further reference to this informative statement, consult the special introduction to it on page 258.

*In 1939 and 1940 a number of municipalities asked permission to take power cost adjustments into the following year, to facilitate the earlier closing of their books. On this account, from 1941 on, with few exceptions the balance sheet shows the previous year's equity in Commission properties; and the cost of power in the operating statement includes the previous year's adjustments.

†The statistics include retail power only. Wholesale industrial power as supplied by the Commission direct, is reported in Section II.

Municipal Electrical Utilities

The following summarizes the year's operation of the local electrical utilities conducted by municipalities owning their own distribution systems and operating with energy supplied by or through the Commission. These include not only electrical utilities of the cost contract municipalities of the Southern Ontario and Thunder Bay Systems, but also those of certain municipalities served through the Northern Ontario Properties.

The total revenue collected by the municipal electrical utilities in 1950 was \$73,523,531.58, as compared with \$56,903,200.73 for 1949, an increase of \$16,620,330.85 or 29.2 per cent.

The items of expenditure of the municipal electrical utilities included \$46,400,040.72 for power supplied for the most part by the Commission, \$14,306,984.70 for operation, maintenance, and administration and \$497,138.36 for interest, \$980,917.96 for sinking fund and principal payments on debentures, and \$5,845,851.98 for depreciation and other reserves. Total expenses and reserve appropriations were \$68,030,933.72, an increase of \$14,324,422.47, or 26.7 per cent over 1949. The total net surplus for the year's operations was \$5,492,597.86.

Co-operative Systems

With regard to the local electrical utilities operating under cost contracts, the following statements summarize for each of the co-operative systems administered by the Commission the financial status and the year's operations as detailed in this Section and in Section II.

The average cost per kilowatt to the municipalities of the Southern Ontario and Thunder Bay Systems during 1950 was \$32.16, as compared with \$30.19 for the previous year, an increase of \$1.97 per kilowatt. This increase in the cost of power to the municipalities and local increases in the cost of operation necessitated increases in rates to customers. During the year the Commission approved rate increases in 147 municipalities. These new rates will increase the annual revenue of the municipalities concerned by 14½ per cent but their full effect was not felt during 1950 because they did not apply to the whole year's operations.

SOUTHERN ONTARIO SYSTEM

The total plant assets of the Southern Ontario System utilities amount to \$149,098,835.71. The total assets aggregate \$286,602,050.34. The reserves and surplus accumulated in connection with the local utilities amount to \$162,796,472.67, an increase of \$9,304,712.98 during the year 1950. The percentage of net debt to total assets is 11.5, an increase of 4.7 per cent, which has been chiefly due to the post-war rehabilitation program.

The total revenue of the municipal electrical utilities served by this system was \$70,005,104.36, an increase of \$15,796,939.17 or 29.1 per cent, as compared with the previous year.

After meeting all expenses in respect of operation—including interest, depreciation, and other reserves—and providing for the retirement of instalment and sinking fund debentures, the total net surplus for the year for the municipal electrical utilities served by the Southern Ontario System amounted to \$5,220,079.29 as compared with a net surplus of \$3,040,998.17 for the previous year.

THUNDER BAY SYSTEM

The total plant assets of the Thunder Bay System utilities amount to \$4,543,689.97. The total assets aggregate \$12,118,169.12. The reserves and surplus accumulated in connection with the local utilities amount to \$4,856,354.25, an increase of \$321,571.90 during the year 1950. The percentage of net debt to total assets is 16.2, an increase of 7.0 per cent.

The total revenue of the municipal electrical utilities served by this system was \$2,248,658.54, an increase of \$679,957.79, or 43.3 per cent, as compared with the previous year. After meeting all expenses in respect of operation—including interest, depreciation, and other reserves—and providing for the retirement of instalment and sinking fund debentures, the total net surplus for the year for the municipal electrical utilities served by the Thunder Bay System amounted to \$191,998.80 as compared with a net surplus of \$96,452.11 for the previous year.

CONSOLIDATED

Year.....	1943	1944	1945
Number of municipalities included.....	298	298	304
ASSETS	\$	\$	\$
Lands and buildings.....	11,664,887.81	11,713,108.74	11,879,469.56
Substation equipment.....	25,392,202.96	25,805,344.10	26,201,620.92
Distribution system—overhead.....	25,773,224.22	26,075,416.77	26,835,864.78
Distribution system—underground....	6,451,393.47	6,385,742.19	6,539,797.63
Line transformers.....	12,353,367.17	12,698,080.21	13,360,997.73
Meters.....	11,117,612.15	11,339,479.64	11,742,720.68
Street lighting equipment—regular....	2,903,704.11	2,926,365.70	3,066,246.06
Street lighting equipment—ornamental.	1,542,294.82	1,542,819.42	1,551,628.63
Miscellaneous construction expenses...	3,740,027.08	3,414,557.25	3,469,256.69
Steam or hydraulic plant.....	397,576.71	368,022.38	1,005,980.83
Old plant.....	936,561.90	820,607.24	692,517.55
Total plant.....	102,272,852.40	103,089,543.64	106,346,101.06
Bank and cash balance.....	2,341,996.68	1,947,073.36	1,744,827.39
Securities and investments.....	17,037,057.29	21,245,620.67	27,530,379.33
Accounts receivable.....	3,347,449.72	3,710,514.76	3,682,108.35
Inventories.....	1,750,799.42	1,622,866.57	1,735,925.21
Sinking fund on local debentures.....	5,028,551.56	4,880,499.77	4,952,718.62
Equity in H-E.P.C. systems.....	62,031,673.13	69,486,548.01	75,002,351.38
Other assets.....	537,366.80	192,661.46	290,022.85
Frequency standardization expenditure in suspense.....			
Total assets.....	194,347,747.00	206,175,328.24	221,284,434.19
LIABILITIES			
Debenture balance.....	13,657,032.51	11,612,359.10	10,612,595.02
Accounts payable.....	2,699,630.77	1,701,420.70	2,528,081.42
Bank overdraft.....	118,834.40	174,491.81	429,585.64
Other liabilities.....	2,618,742.94	2,584,979.26	2,707,515.21
Total liabilities.....	19,094,240.62	16,073,250.87	16,277,777.29
RESERVES			
For equity in H-E.P.C. systems.....	62,031,673.13	69,486,548.01	75,002,351.38
For depreciation.....	32,138,469.64	34,006,953.37	36,331,919.08
Other reserves.....	5,449,398.96	6,308,596.82	6,979,074.47
Total reserves.....	99,619,541.73	109,802,098.20	118,313,344.93
SURPLUS			
Debentures paid.....	43,552,091.22	45,475,788.84	47,340,018.06
Local sinking fund.....	5,028,551.56	4,880,499.77	4,952,718.62
Operating surplus.....	27,053,321.87	29,943,690.56	34,400,575.29
Net frequency standardization expense charged this year.....			
Total surplus.....	75,633,964.65	80,299,979.17	86,693,311.97
Total liabilities, reserves and surplus...	194,347,747.00	206,175,328.24	221,284,434.19
Percentage of net debt to total assets..	10.0	7.4	7.0

BALANCE SHEETS

1946	1947	1948	1949	1950
304	304	308	315	321
\$	\$	\$	\$	\$
11,830,325.45	12,220,747.92	12,981,533.46	13,759,701.81	16,659,377.57
26,778,943.63	28,430,102.81	29,626,621.36	32,405,939.81	36,684,736.84
27,810,938.64	29,230,801.09	31,541,077.08	34,325,936.81	39,435,443.26
6,848,694.50	7,400,874.88	8,040,205.01	8,663,874.53	9,880,526.08
14,247,872.95	15,698,549.76	17,593,431.84	19,267,220.87	22,639,038.94
12,325,105.86	13,112,187.77	13,948,013.24	15,050,359.45	16,857,378.24
3,268,433.46	3,827,634.40	4,486,158.98	4,847,993.56	5,271,825.19
1,555,698.39	1,536,957.94	1,558,798.17	1,564,378.72	.....
3,802,802.98	4,242,837.80	4,290,247.58	4,608,566.91	5,234,089.19
1,080,730.83	1,080,976.81	1,457,291.81	1,478,544.77	3,322,767.89
658,421.95	587,479.45	573,313.04	773,261.68	162,880.55
110,207,968.64	117,369,150.63	126,096,691.57	136,745,778.92	156,148,063.75
3,584,075.84	2,759,333.88	3,480,104.26	2,654,186.08	2,807,734.27
27,152,189.81	27,721,988.41	26,691,542.33	24,109,961.67	19,706,944.56
4,133,184.23	4,381,276.48	3,987,098.82	4,878,682.68	6,922,076.43
2,193,231.80	3,140,379.57	3,814,953.93	4,229,137.22	5,114,209.37
4,609,214.16	4,387,586.13	1,795,295.61	569,497.99	592,491.22
80,670,336.85	86,574,096.81	92,889,067.86	100,051,662.98	108,475,000.19
326,083.52	543,728.14	541,982.60	1,089,348.62	917,535.55
.....	.....	.....	155,744.87	767,592.91
232,876,284.85	246,877,540.05	259,296,736.98	274,484,001.03	301,451,648.25
9,049,583.60	7,947,290.14	5,297,137.36	4,545,744.63	14,069,133.05
2,267,268.71	3,028,306.12	3,813,817.24	5,666,357.71	5,906,614.43
355,417.71	613,465.91	839,973.70	943,682.84	1,470,416.79
2,636,251.52	2,642,971.05	2,841,344.30	2,984,132.94	1,489,028.47
14,308,521.54	14,232,033.22	12,792,272.60	14,139,918.12	22,935,192.74
80,670,336.85	86,574,096.81	92,889,067.86	100,051,662.98	108,475,000.19
38,253,203.71	40,146,511.52	41,962,273.09	43,893,598.38	46,310,558.56
7,356,359.46	5,788,442.87	4,545,757.39	4,673,978.72	4,314,186.14
126,279,900.02	132,509,051.20	139,397,098.34	148,619,240.08	159,099,744.89
48,935,858.04	50,208,313.28	53,457,629.91	55,525,205.90	56,534,877.64
4,609,214.16	4,387,586.13	1,795,295.61	569,497.99	592,491.22
38,742,791.09	45,540,556.22	51,854,440.52	55,638,367.30	62,522,124.72
.....	.....	.....	8,228.36	232,782.96
92,287,863.29	100,136,455.63	107,107,366.04	111,724,842.83	119,416,710.62
232,876,284.85	246,877,540.05	259,296,736.98	274,484,001.03	301,451,648.25
5.6	5.4	5.2	7.0	11.6

CONSOLIDATED

YEAR.....	1943	1944	1945
Number of municipalities included.....	298	298	304
EARNINGS	\$	\$	\$
Domestic service.....	14,933,681.48	15,371,752.19	15,543,145.28
Commercial light service.....	6,713,348.61	7,219,403.43	8,150,923.90
Commercial power service.....	15,687,273.31	16,222,143.48	15,544,085.89
Municipal power.....	2,031,027.12	2,111,454.22	2,134,062.24
Street lighting.....	1,686,149.29	1,729,320.48	1,922,281.13
Merchandise.....	31,300.28	35,378.31	65,590.57
Miscellaneous.....	782,170.04	897,433.28	1,097,719.02
Total earnings.....	41,864,950.13	43,586,885.39	44,457,808.03
EXPENSES			
Cost of power.....	26,587,877.32	26,937,460.31	26,633,166.70
Substation operation.....	612,227.01	611,878.05	654,305.46
Substation maintenance.....	370,797.74	419,983.12	423,473.57
Distribution system, operation and maintenance.....	1,143,720.84	1,147,646.14	1,243,381.36
Line transformer maintenance.....	145,094.88	145,701.29	155,240.82
Meter maintenance.....	443,307.27	445,437.44	470,203.18
Consumers' premises expenses.....	527,810.36	513,953.14	581,603.20
Street lighting, operation and maintenance.....	380,405.50	445,945.93	487,565.20
Promotion of business.....	171,894.14	156,566.54	171,063.89
Billing and collecting.....	1,226,185.63	1,264,759.35	1,305,542.48
General office, salaries and expenses.....	1,117,334.29	1,139,174.46	1,201,915.79
Undistributed expense.....	510,448.34	522,204.17	640,831.75
Truck operation and maintenance.....	94,830.33	104,222.84	123,720.21
Interest.....	844,161.48	707,925.20	710,300.94
Sinking fund and principal payments on debentures.....	1,871,119.81	1,564,537.45	1,255,825.57
Depreciation.....	2,915,395.96	2,668,439.61	2,736,906.64
Other reserves.....	951,711.62	852,675.21	1,216,822.19
Total operating costs and fixed charges.....	39,914,322.52	39,648,510.25	40,011,868.95
Net surplus.....	1,950,627.61	3,938,375.14	4,445,939.08
NUMBER OF CUSTOMERS			
Domestic service.....	565,109	574,469	590,723
Commercial light service.....	75,565	77,376	81,118
Power service.....	13,761	13,792	14,339
Total.....	654,435	665,637	686,180

OPERATING REPORTS

1946	1947	1948	1949	1950
304	304	308	315	321
\$	\$	\$	\$	\$
16,852,308.83	18,172,574.54	19,506,499.27	21,137,834.75	28,066,402.91
8,979,037.16	9,819,043.11	9,766,500.29	10,444,393.84	14,690,733.78
15,707,154.73	17,613,525.22	18,235,664.95	19,178,070.91	23,873,159.20
2,161,079.81	2,216,812.71	2,343,112.69	2,475,539.80	2,907,974.03
1,975,024.68	2,057,215.86	2,153,034.35	2,219,551.02	2,552,755.74
179,252.65	233,117.94	221,544.94	216,734.17	216,549.51
1,210,440.76	1,267,485.38	1,268,351.70	1,231,076.24	1,215,956.41
47,064,298.62	51,379,774.76	53,494,708.19	56,903,200.73	73,523,531.58
29,131,997.88	31,760,128.32	32,432,823.73	36,225,068.75	46,400,040.72
753,931.65	855,965.41	1,019,515.46	1,126,138.22	1,441,553.66
444,276.75	475,837.06	595,059.49	626,041.76	679,136.10
1,404,441.08	1,628,081.77	1,967,371.30	2,110,892.72	2,682,034.57
168,429.61	219,164.00	249,212.31	279,383.13	335,739.15
528,810.47	607,758.38	699,593.39	751,382.32	762,974.01
699,773.37	822,675.89	1,005,146.07	1,061,668.85	1,243,611.94
493,443.23	547,556.40	602,995.88	688,584.31	705,830.91
183,606.79	231,488.57	343,395.13	282,618.04	277,190.88
1,428,246.45	1,643,780.22	1,872,644.99	2,077,074.94	2,382,607.11
1,319,972.30	1,521,688.93	1,814,028.57	1,961,727.80	2,162,662.43
831,176.06	840,075.97	803,047.22	833,337.54	1,331,333.41
147,458.42	202,997.29	243,560.50	269,151.54	302,310.53
525,588.16	423,041.93	339,213.78	305,084.60	497,138.36
1,239,108.29	992,793.11	903,443.37	842,182.95	980,917.96
2,824,871.68	3,002,877.86	3,278,262.63	3,631,483.76	4,076,473.95
1,503,255.70	1,478,990.80	1,051,522.24	634,690.02	1,769,378.03
43,628,387.89	47,254,901.91	49,220,836.06	53,706,511.25	68,030,933.72
3,435,910.73	4,124,872.85	4,273,872.13	3,196,689.48	5,492,597.86
606,046	625,705	649,220	684,417	745,422
85,400	87,937	91,382	94,881	104,122
15,115	15,867	16,439	17,184	18,372
706,561	729,509	757,041	796,482	867,916

STATEMENT
Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM

Municipality.....	Acton	Agincourt	Ailsa Craig	Alexandria	Alliston
Population.....	3,030	824	481	2,163	1,829
ASSETS	\$	\$	\$	\$	\$
Lands and buildings.....	1,627.38			202.00	
Substation equipment.....	2,318.36				675.73
Distribution system—overhead....	46,764.15	19,459.81	10,273.03	31,886.17	42,472.79
Distribution system—underground.					
Line transformers.....	27,724.54	14,177.63	5,800.55	19,929.38	18,447.11
Meters.....	19,210.34	6,596.66	4,088.32	13,799.84	16,407.55
Street light equipment, regular....	3,573.13	5,382.54	535.35	4,047.87	5,958.50
Street light equipment, ornamental					
Miscellaneous construction expense	4,528.56	290.29	8.60	680.64	2,315.86
Steam or hydraulic plant.....					
Old plant.....					7,846.49
Total plant.....	105,746.46	45,906.93	20,705.85	70,545.90	94,124.03
Bank and cash balance.....	3,817.32		695.65	19,011.59	539.62
Securities and investments.....	7,000.00	11,500.00	6,000.00	33,000.00	22,000.00
Accounts receivable.....	2,424.97	1,136.42	670.00	3,799.58	1,141.19
Inventories.....	980.00				1.80
Sinking fund on local debentures					
Equity in H-E.P.C. systems.....	147,026.35	23,262.25	27,421.74	54,649.62	48,879.07
Other assets.....	135.78				1,678.28
Frequency standardization expenditure in suspense.....	94.75				
Total assets.....	267,225.63	81,805.60	55,493.24	181,006.69	168,363.99
LIABILITIES					
Debenture balance.....					
Accounts payable.....	283.16	2,905.48	1,468.63	87.18	370.56
Bank overdraft.....		357.14			
Other liabilities.....	2,337.34	40.00	120.00	1,919.76	346.50
Total liabilities.....	2,620.50	3,302.62	1,588.63	2,006.94	717.06
RESERVES					
For equity in H-E.P.C. systems....	147,026.35	23,262.25	27,421.74	54,649.62	48,879.07
For depreciation.....	15,170.12	7,955.46	5,977.18	21,898.38	13,007.93
Other reserves.....		17.23			63.51
Total reserves.....	162,196.47	31,234.94	33,398.92	76,548.00	61,950.51
SURPLUS					
Debentures paid.....	14,500.00	8,072.65	6,883.38	38,299.23	37,736.04
Local sinking fund.....					
Operating surplus.....	*87,908.66	39,195.39	13,622.31	64,152.52	67,960.38
Net frequency standardization expense charged this year.....					
Total surplus.....	102,408.66	47,268.04	20,505.69	102,451.75	105,696.42
Total liabilities, reserves and surplus.	267,225.63	81,805.60	55,493.24	181,006.69	168,363.99
Percentage of net debt to total assets.	2.2	5.6	5.7	1.6	0.6

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

"A"

Utilities as at December 31, 1950

Almonte	Alvinston	Amherstburg	Ancaster Twp. (V.A.)	Apple Hill	Arkona	Arnprior
2,527	664	3,444	.....	464	361	4,326
\$	\$	\$	\$	\$	\$	\$
10,603.60	2,058.60	.....	354.71	169.06	.....	8,241.00
24,581.90	19,958.21	62,561.52	47,315.05	3,073.55	11,567.98	42,805.93
40,689.96	.....	657.77	.....	.....	.....	.....
23,745.99	6,047.08	50,710.23	25,031.61	1,888.97	3,521.48	35,123.70
16,575.82	4,926.02	24,818.53	11,398.62	1,656.24	3,169.34	22,914.05
8,989.77	1,473.27	3,193.56	1,863.96	421.12	1,378.88	20,483.98
1,082.00	188.48	4,241.67	632.61	7.85	66.60	40.46
110,647.67	.....	.....	.....	.....	.....	.....
236,916.71	34,651.66	146,183.28	86,596.56	7,216.79	19,704.28	129,609.12
24,691.22	3,097.66	525.63	2,379.12	7,870.21	1,780.03	2,198.68
8,000.00	11,000.00	20,350.00	.....	2,500.00	4,000.00	41,000.00
2,531.64	220.20	2,892.74	2,251.24	165.56	141.89	1,269.23
6,449.24	.....	1,023.35	.....	.....	.....	10,220.68
6,646.28	27,576.32	112,393.43	36,911.28	6,216.96	12,514.97	35,381.68
.....	.....	31.12	390.00	.....	.....	.....
.....	216.93	.....	6.00	.....	1,003.87	.....
285,235.09	76,762.77	283,399.55	128,534.20	23,969.52	39,145.04	219,679.39
13,236.63	.....	.....	30,000.00	.....	.....	.....
1,866.36	903.99	416.62	1,210.72	.....	138.27	13,182.92
830.74	61.00	695.11	296.25	.....	20.69	2,183.17
15,933.73	964.99	1,111.73	31,506.97	.....	158.96	15,366.09
6,646.28	27,576.32	112,393.43	36,911.28	6,216.96	12,514.97	35,381.68
51,693.46	14,342.37	42,981.10	8,950.27	3,974.46	6,378.30	10,265.87
1,396.80	59.50	413.56	48.02	.....	.....	.....
59,736.54	41,978.19	155,788.09	45,909.57	10,191.42	18,893.27	45,647.55
58,763.37	23,529.24	32,053.60	14,110.28	5,080.12	13,112.83	55,469.13
150,801.45	*10,290.35	94,446.13	*37,007.38	8,697.98	*6,979.98	103,196.62
209,564.82	33,819.59	126,499.73	51,117.66	13,778.10	20,092.81	158,665.75
285,235.09	76,762.77	283,399.55	128,534.20	23,969.52	39,145.04	219,679.39
5.7	2.0	0.6	34.4	0.0	0.6	8.3

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Arthur	Athens	Aurora	Aylmer	Ayr
Population	1,158	781	3,697	3,481	855
ASSETS	\$	\$	\$	\$	\$
Lands and buildings			4,009.85	11,147.41	125.00
Substation equipment			1,491.05	5,125.60	
Distribution system—overhead.....	20,579.85	15,402.05	50,441.12	45,707.87	14,837.81
Distribution system—underground..					
Line transformers	12,706.12	4,279.45	35,453.18	40,976.90	9,215.07
Meters	6,809.92	4,676.18	22,045.02	22,578.55	6,153.67
Street light equipment, regular....	2,305.56	725.65	7,991.81	10,716.31	1,170.78
Street light equipment, ornamental					
Miscellaneous construction expense	988.45	71.12	16,802.87	6,176.52	192.00
Steam or hydraulic plant					
Old plant	1,086.62				
Total plant	44,476.52	25,154.45	138,234.90	142,429.16	31,694.33
Bank and cash balance	2,095.71	9,475.93	30.00	4,404.88	1,987.87
Securities and investments	4,000.00	9,000.00	12,000.00	6,000.00	9,467.41
Accounts receivable	198.18	2,141.27	575.67	2,264.01	908.76
Inventories				14.11	
Sinking fund on local debentures ..					
Equity in H-E.P.C. systems	36,099.86	13,696.37	27,987.35	91,504.92	29,693.41
Other assets					
Frequency standardization expenditure in suspense			1,271.67		
Total assets	86,870.27	59,468.02	180,099.59	246,617.08	73,751.78
LIABILITIES					
Debenture balance	1,505.65				
Accounts payable	100.02			838.85	1,379.84
Bank overdraft			2,322.09		
Other liabilities	347.60		897.00	1,127.66	78.64
Total liabilities	1,953.27		3,219.09	1,966.51	1,458.48
RESERVES					
For equity in H-E.P.C. systems....	36,099.86	13,696.37	27,987.35	91,504.92	29,693.41
For depreciation	16,385.82	5,132.69	33,326.23	35,384.69	8,423.94
Other reserves		206.06		622.24	
Total reserves	52,485.68	19,035.12	61,313.58	127,511.85	38,117.35
SURPLUS					
Debentures paid	23,494.35	12,988.39		38,701.92	17,503.38
Local sinking fund					
Operating surplus	8,936.97	27,444.51	*115,566.92	78,436.80	16,672.57
Net frequency standardization expense charged this year					
Total surplus	32,431.32	40,432.90	115,566.92	117,138.72	34,175.95
Total liabilities, reserves and surplus.	86,870.27	59,468.02	180,099.59	246,617.08	73,751.78
Percentage of net debt to total assets.	3.8	0.0	2.1	1.3	3.3

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

“A”—Continued

Utilities as at December 31, 1950

Baden 692	Bancroft 1,220	Barrie 12,904	Barry's Bay 1,294	Bath 373	Beachville 656	Beamsville 1,684
\$ 882.40	\$	\$ 36,718.46	\$	\$	\$ 176.13	\$
12,192.01	16,714.14	80,912.55	8,740.68	11,953.15	19,866.03	23,812.61
5,600.40	7,455.84	100,735.20	4,280.56	2,010.90	9,750.83	16,885.29
5,452.73	6,887.19	92,918.32	3,732.97	2,019.88	5,570.90	11,193.52
748.17	1,973.54	15,466.80	796.14	769.76	875.09	3,216.95
182.92	654.13	1,150.00	117.45	727.38	1,761.97	
	108,270.93		2,500.00			
25,058.63	141,955.77	518,804.00	20,167.80	17,481.07	38,000.95	55,108.37
8,041.35	1,072.05	3,011.42	8,652.09	1,605.19	2,891.86	1,539.76
6,500.00		118,100.00			21,500.00	25,000.00
1,022.23	2,123.22	30,955.01	354.06	55.09	326.04	725.03
	1,605.85	18,703.07				
60,939.92		324,820.23		5,183.21	79,847.22	18,546.13
						75.00
101,562.13	146,756.89	1,014,393.73	29,173.95	24,324.56	142,566.07	100,994.29
88.50	49,500.00		5,585.82	1,158.74		
	3,324.72		1,010.12		3,433.20	2,764.74
10.00	136.00	6,993.56		180.00		857.90
98.50	52,960.72	6,993.56	6,595.94	1,338.74	3,433.20	3,622.64
60,939.92		324,820.23		5,183.21	79,847.22	18,546.13
4,688.96	23,775.71	168,857.38	3,110.91	4,189.41	11,160.44	13,991.55
		400.00	1,065.45			
65,628.88	23,775.71	494,077.61	4,176.36	9,372.62	91,007.66	32,537.68
5,000.00	18,000.00	65,365.68	4,414.18	6,341.26	5,536.66	37,500.00
30,834.75	52,020.46	447,956.88	13,987.47	7,271.94	42,588.55	*27,333.97
35,834.75	70,020.46	513,322.56	18,401.65	13,613.20	48,125.21	64,833.97
101,562.13	146,756.89	1,014,393.73	29,173.95	24,324.56	142,566.07	100,994.29
0.2	36.1	1.1	22.6	7.0	5.5	4.4

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Beaverton	Beeton	Belle River	Belleville	Blenheim
Population.....	841	576	1,358	19,220	2,439
ASSETS	\$	\$	\$	\$	\$
Lands and buildings.....	499.50	.....	204.20	44,883.51	14,874.79
Substation equipment.....	.....	428.50	.....	138,695.68	1,264.64
Distribution system—overhead.....	29,387.72	14,550.46	28,384.52	222,651.21	55,761.70
Distribution system—underground.....	.....	.....	.....	.....	.....
Line transformers.....	13,750.18	4,430.80	10,079.46	95,780.36	23,698.82
Meters.....	10,146.76	4,076.99	8,767.31	119,714.88	20,490.43
Street light equipment, regular.....	2,046.34	2,811.68	2,845.94	49,633.96	5,679.65
Street light equipment, ornamental.....	.....	.....	.....	.....	.....
Miscellaneous construction expense.....	121.85	153.74	326.74	21,954.79	389.79
Steam or hydraulic plant.....	.....	.....	.....	.....	.....
Old plant.....	.....	.....	.....	.....	.....
Total plant.....	55,952.35	26,452.17	50,608.17	693,314.39	122,159.82
Bank and cash balance.....	3,064.17	766.98	370.56	42,035.00	2,559.77
Securities and investments.....	7,200.00	6,000.00	2,000.00	35,000.00	4,000.00
Accounts receivable.....	260.47	45.92	139.60	42,821.07	1,142.09
Inventories.....	.....	.....	.....	32,183.81	2,275.21
Sinking fund on local debentures.....	.....	.....	.....	.....	.....
Equity in H-E.P.C. systems.....	38,113.19	28,029.18	22,319.96	401,860.44	73,561.15
Other assets.....	1,058.94	394.66	9.60	.....	209.50
Frequency standardization expenditure in suspense.....	.....	.....	.....	.....	.....
Total assets.....	105,649.12	61,688.91	75,447.89	1,247,214.71	205,907.54
LIABILITIES	.....	.....	.....	.....	.....
Debenture balance.....	.....	.....	.....	.....	.....
Accounts payable.....	184.62	761.13	1,624.15	.....	5,643.81
Bank overdraft.....	.....	.....	.....	.....	.....
Other liabilities.....	1,149.03	170.00	369.94	18,872.28	285.00
Total liabilities.....	1,333.65	931.13	1,994.09	18,872.28	5,928.81
RESERVES	.....	.....	.....	.....	.....
For equity in H-E.P.C. systems.....	38,113.19	28,029.18	22,319.96	401,860.44	73,561.15
For depreciation.....	21,395.25	7,535.04	14,136.59	123,504.11	32,755.54
Other reserves.....	400.00	86.50	.....	4,679.63	219.77
Total reserves.....	59,908.44	35,650.72	36,456.55	530,044.18	106,536.46
SURPLUS	.....	.....	.....	.....	.....
Debentures paid.....	12,839.34	13,610.31	8,500.00	174,997.19	14,000.00
Local sinking fund.....	.....	.....	.....	.....	.....
Operating surplus.....	31,567.69	11,496.75	28,497.25	523,301.06	79,442.27
Net frequency standardization expense charged this year.....	.....	.....	.....	.....	.....
Total surplus.....	44,407.03	25,107.06	36,997.25	698,298.25	93,442.27
Total liabilities, reserves and surplus.....	105,649.12	61,688.91	75,447.89	1,247,214.71	205,907.54
Percentage of net debt to total assets.....	2.0	2.8	3.8	2.2	4.5

"A"—Continued

Utilities as of December 31, 1950

Bloomfield 616	Blyth 625	Bobcaygeon 1,117	Bolton 818	Bothwell 691	Bowmanville 4,903	Bradford 1,547
\$	\$	\$	\$	\$	\$	\$
12,054.46	14,692.20	740.00 31,174.18	17,571.51	10,519.23	39,215.49 90,998.71 69,402.96	5,710.06 388.50 33,220.90
3,890.71	6,513.59	10,675.34	13,659.74	5,770.22	26,113.49	18,586.00
4,322.22	4,877.32	10,954.59	5,934.59	4,893.85	33,573.58	13,237.74
1,121.08	1,554.68	6,375.20	994.22	4,709.03	10,349.14	1,167.81
	319.17	822.90	1,508.16	167.69	15,923.90	2,005.58
		75,000.00				
21,388.47	27,956.96	135,742.21	39,668.22	26,060.02	285,577.27	74,316.59
3,434.60	6,106.47		2,622.30	1,175.25	18,816.34	21,117.75
17,500.00	8,000.00		12,000.00	10,000.00	65,000.00	2,500.00
155.41	524.51	797.03	183.87	915.80	8,016.37	1,482.92
		2,330.80	85.00		10,401.39	5,046.31
13,434.78	19,856.09	2,615.22	33,041.91	30,396.45	155,547.24	36,151.65
		106.24			15.67	101.50
			57.57			
55,913.26	62,444.03	141,591.50	87,658.87	68,547.52	543,374.28	140,716.72
10.03	532.18	32,201.52		118.00	466.79	2,922.72
231.00	168.79	1,171.64	236.39	100.95	1,826.97	1,072.44
241.03	700.97	33,373.16	236.39	218.95	2,293.76	3,995.16
13,434.78	19,856.09	2,615.22	33,041.91	30,396.45	155,547.24	36,151.65
10,621.57	8,836.18	37,249.62	10,858.64	9,889.72	38,872.85	19,201.43
		100.00	44.00	15.13		29.88
24,056.35	28,692.27	39,964.84	43,944.55	40,301.30	194,420.09	55,382.96
9,796.58	16,032.52	57,798.48	12,500.00	5,534.19	71,000.00	23,351.06
21,819.30	17,018.27	10,455.02	*30,977.93	22,493.08	275,660.43	57,987.54
31,615.88	33,050.79	68,253.50	43,477.93	28,027.27	346,660.43	81,338.60
55,913.26	62,444.03	141,591.50	87,658.87	68,547.52	543,374.28	140,716.72
0.6	1.6	24.0	0.4	0.6	0.6	3.8

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Braeside	Brampton	Brantford	Brantford Twp.(V.A.)	Brechin
Population.....	484	7,702	36,532		266
ASSETS	\$	\$	\$	\$	\$
Lands and buildings.....		6,175.76	181,450.08	2,930.39	
Substation equipment.....		52,559.93	306,519.20	62,640.01	
Distribution system—overhead....	3,625.66	87,036.53	368,716.90	191,574.44	1,692.10
Distribution system—underground.			7,029.67		
Line transformers.....	2,290.28	83,550.39	317,302.87	75,987.70	2,432.89
Meters.....	1,916.25	52,614.25	226,884.51	61,663.39	1,214.30
Street light equipment, regular....	64.17	15,284.07	60,280.84	15,054.58	197.38
Street light equipment, ornamental					
Miscellaneous construction expense		2,920.96	48,447.47	8,729.75	
Steam or hydraulic plant.....					
Old plant.....			6,000.00		
Total plant.....	7,896.36	300,141.89	1,522,631.54	418,580.26	5,536.67
Bank and cash balance.....	7,970.49	1,311.87	1,475.24	8,992.76	2,407.14
Securities and investments.....		51,500.00	81,000.00		5,000.00
Accounts receivable.....	1,212.83	581.75	25,043.77	2,667.57	20.31
Inventories.....		6,285.62	45,174.31	4,574.19	24.42
Sinking fund on local debentures.					
Equity in H-E.P.C. systems.....	2,588.59	329,204.39	1,849,831.58	88,273.40	13,042.12
Other assets.....		4.74	6,534.77	420.20	
Frequency standardization expenditure in suspense.....		445.74	1,425.00	1,225.00	
Total assets.....	19,668.27	689,476.00	3,533,116.21	524,733.38	26,030.66
LIABILITIES					
Debenture balance.....	4,663.44			169,036.87	
Accounts payable.....	1,983.80		5,337.49	1,528.87	48.74
Bank overdraft.....		1,658.99	5,360.32		
Other liabilities.....	120.00	2,505.00	33,950.24	2,240.56	25.00
Total liabilities.....	6,767.24	4,163.99	44,648.05	172,806.30	73.74
RESERVES					
For equity in H-E.P.C. systems....	2,588.59	329,204.39	1,849,831.58	88,273.40	13,042.12
For depreciation.....	883.69	97,019.60	518,935.36	75,047.63	1,082.32
Other reserves.....		478.23	8,789.29	72.15	8.49
Total reserves.....	3,472.28	426,702.22	2,377,556.23	163,393.18	14,132.93
SURPLUS					
Debentures paid.....	1,336.56	69,050.64	530,000.00	78,088.79	2,664.00
Local sinking fund.....					
Operating surplus.....	8,092.19	*189,559.15	*580,911.93	*110,445.11	9,159.99
Net frequency standardization expense charged this year.....					
Total surplus.....	9,428.75	258,609.79	1,110,911.93	188,533.90	11,823.99
Total liabilities, reserves and surplus.	19,668.27	689,476.00	3,533,116.21	524,733.38	26,030.66
Percentage of net debt to total assets.	33.8	1.2	2.6	39.6	0.6

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

“A”—Continued

Utilities as at December 31, 1950

Bridgeport	Brigden	Brighton	Brockville	Brussels	Burford	Burgessville
.....	424	1,999	11,845	814	847	222
\$	\$	\$	\$	\$	\$	\$
.....	1,482.03	600.00	51,369.35	.....	802.00	.....
18,789.54	12,303.24	31,661.73	225,779.83	.....	.....	.....
.....	.....	.....	105,859.21	25,217.07	14,386.76	4,627.72
10,473.64	4,150.39	10,661.62	84,303.27	8,929.64	8,047.88	4,293.08
6,523.73	4,003.16	12,142.13	70,583.09	6,299.32	6,947.48	1,775.41
1,789.35	509.23	1,350.85	40,550.97	1,707.79	692.53	261.02
.....	88.70	1,106.65	3,756.64	217.84	168.40	30.00
.....
37,576.26	22,536.75	57,522.98	582,202.36	42,371.66	31,045.05	10,987.23
1,177.49	2,045.99	1,115.63	10,595.08	96.96	.....	2,460.03
.....	6,800.00	10,000.00	21,050.00	6,000.00	4,000.00	2,800.00
436.56	147.87	5,758.54	15,137.49	271.89	414.94	53.17
.....	.....	4,548.01	8,768.64	.....	13.30	.....
14,832.26	21,513.15	28,185.99	376,775.99	25,945.90	27,597.78	10,158.59
.....	.....	.....	1,820.66	10.00	30.00	.....
.....	170.34	.....	.....	.....	.....	.....
54,022.57	53,214.10	107,131.15	1,016,350.22	74,696.41	63,101.07	26,459.02
.....
736.00	32.65	520.04	12,790.05	396.57	.....	11.92
.....	.....	.....	.....	.....	761.17	.....
195.00	35.00	1,172.39	6,184.09	104.55	113.30	10.00
.....
931.00	67.65	1,692.43	18,974.14	501.12	874.47	21.92
.....
14,832.26	21,513.15	28,185.99	376,775.99	25,945.90	27,597.78	10,158.59
11,264.68	7,206.61	7,933.63	132,281.69	4,235.39	7,275.09	4,941.67
.....	97.24	219.23	13,936.56	.....	.....	.....
26,096.94	28,817.00	36,338.85	522,994.24	30,181.29	34,872.87	15,100.26
.....
12,368.03	8,000.00	25,000.00	174,869.92	21,000.00	9,000.00	3,500.00
14,626.60	*16,329.45	44,099.87	299,511.92	23,014.00	18,353.73	7,836.84
.....
26,994.63	24,329.45	69,099.87	474,381.84	44,014.00	27,353.73	11,336.84
54,022.57	53,214.10	107,131.15	1,016,350.22	74,696.41	63,101.07	26,459.02
2.4	0.2	2.1	2.9	1.0	2.5	0.1

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Burks Falls 850	Burlington	Caledonia	Campbell- ville 225	Canning- ton 856
Population.....		5,952	1,645		
ASSETS	\$	\$	\$	\$	\$
Lands and buildings.....		18,281.47	656.01		
Substation equipment.....		3,900.00			
Distribution system—overhead....	29,067.17	138,807.70	28,863.90	3,408.21	16,743.38
Distribution system—underground.					
Line transformers.....	10,061.55	65,306.66	16,575.13	1,662.41	8,276.31
Meters.....	3,237.05	42,091.99	12,035.87	1,326.70	6,878.09
Street light equipment, regular....	1,131.99	9,187.00	3,720.70	517.31	2,938.01
Street light equipment, ornamental					
Miscellaneous construction expense	1,175.81	14,997.02	1,414.07	6.82	21.75
Steam or hydraulic plant.....					
Old plant.....	6,353.93				
Total plant.....	51,027.50	292,571.84	63,265.68	6,921.45	34,857.54
Bank and cash balance.....	1,862.44	5,501.46	50.00	473.16	6,043.60
Securities and investments.....		2,600.00	200.00	3,600.00	6,000.00
Accounts receivable.....	470.65	3,258.58	665.51	18.56	405.87
Inventories.....	116.00	20,006.87	3,161.81		453.73
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....		22,074.10	44,267.74	5,808.47	29,071.53
Other assets.....		29.54	65.00		1,116.40
Frequency standardization expendi- ture in suspense.....				24.00	
Total assets.....	53,476.59	346,042.39	111,675.74	16,845.64	77,948.67
LIABILITIES					
Debenture balance.....	33,186.12	98,355.70	4,000.00		
Accounts payable.....	15,341.06	34,643.58	173.50		926.43
Bank overdraft.....			162.56		
Other liabilities.....		5,792.85	510.69		45.00
Total liabilities.....	48,527.18	138,792.13	4,846.75		971.43
RESERVES					
For equity in H-E.P.C. systems....		22,074.10	44,267.74	5,808.47	29,071.53
For depreciation.....	870.00	34,092.90	9,257.59	2,494.03	14,132.25
Other reserves.....					76.05
Total reserves.....	870.00	56,167.00	53,525.33	8,302.50	43,279.83
SURPLUS					
Debentures paid.....	1,813.88	62,144.30	5,624.00	5,447.77	14,532.42
Local sinking fund.....					
Operating surplus.....	2,265.53	88,938.96	47,679.66	*3,095.37	19,164.99
Net frequency standardization ex- pense charged this year.....					
Total surplus.....	4,079.41	151,083.26	53,303.66	8,543.14	33,697.41
Total liabilities, reserves and surplus.	53,476.59	346,042.39	111,675.74	16,845.64	77,948.67
Percentage of net debt to total assets.	90.7	42.8	7.2	0.0	2.0

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

“A”—Continued

Utilities as at December 31, 1950

Cardinal 1,739	Carleton Place 4,616	Cayuga 742	Chatham 21,223	Chatsworth 374	Chesley 1,707	Chesterville 1,165
\$	\$	\$	\$	\$	\$	\$
.....	13,390.32	.....	186,917.06	364.89	6,000.00	3,360.25
17,875.86	16,415.55	.....	219,287.18	.....	2,305.58	.....
.....	57,106.36	25,134.91	288,403.18	6,511.60	33,824.92	13,799.80
.....	.....	.....	191,185.95	.....	.....	.....
7,736.98	22,320.66	10,951.96	176,464.63	3,988.94	18,826.28	6,399.41
5,908.65	26,380.75	6,798.73	119,397.01	3,461.91	12,449.40	6,960.56
1,151.95	7,364.40	1,946.77	44,457.27	1,432.48	3,405.63	1,898.98
.....
566.34	705.23	1,819.24	54,242.60	67.36	438.07	539.76
.....
3,474.80	.....	.....	.....	.....	.....	.....
.....
36,714.58	143,683.27	46,651.61	1,280,354.88	15,827.18	77,249.88	32,958.76
.....
384.43	3,716.07	2,226.36	50.00	3,120.52	2,338.50	5,120.09
1,500.00	39,500.00	15,200.00	50,000.00	1,000.00	4,000.00	12,000.00
505.70	1,037.19	1,904.25	67,619.06	45.42	152.54	1,851.27
.....	6,137.48	232.91	61,392.19	.....	.....	59.30
.....
16,241.71	157,026.96	20,354.03	775,904.60	9,462.88	69,615.22	48,243.02
.....	.....	75.00	8,355.00	.....	554.11	.....
.....	.....	.....	2,200.00	.....	.....	.....
.....
55,346.42	351,100.97	86,644.16	2,245,875.73	29,456.00	153,910.25	100,232.44
.....
.....	.....	.....	161,584.42	.....	.....	.....
1,733.09	34.56	50.35	57.10	29.16	29.90	33.08
.....	.....	.....	139,511.77	.....	.....	.....
.....	1,986.06	235.43	8,715.54	78.23	.....	35.00
.....
1,733.09	2,020.62	285.78	312,868.83	107.39	29.90	68.08
.....
16,241.71	157,026.96	20,354.03	775,904.60	9,462.88	69,615.22	48,243.02
3,868.80	29,222.92	11,106.94	281,020.72	4,415.68	21,362.47	10,649.49
26.65	798.94	149.06	48,735.69	.....	.....	.....
.....
20,137.16	187,048.82	31,610.03	1,105,661.01	13,878.56	90,977.69	58,892.51
.....
15,000.00	58,116.83	20,000.00	405,415.58	5,014.10	24,410.34	5,889.32
18,476.17	103,914.70	34,748.35	*421,930.31	10,455.95	38,492.32	35,382.53
.....
.....
33,476.17	162,031.53	54,748.35	827,345.89	15,470.05	62,902.66	41,271.85
.....
55,346.42	351,100.97	86,644.16	2,245,875.73	29,456.00	153,910.25	100,232.44
.....
4.4	1.0	0.4	21.3	0.5	0.0	0.1

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Chippawa	Clifford	Clinton	Cobden	Cobourg
Population.....	1,584	451	2,405	771	7,517
ASSETS	\$	\$	\$	\$	\$
Lands and buildings.....	1,434.46		10,164.94		32,227.73
Substation equipment.....			22,363.98		1,668.35
Distribution system—overhead.....	22,365.02	11,109.14	31,222.22	8,249.87	139,554.31
Distribution system—underground.....					
Line transformers.....	11,774.29	5,669.77	21,206.60	4,174.02	51,916.22
Meters.....	9,220.22	3,579.61	16,317.14	4,498.67	50,225.74
Street light equipment, regular.....	8,242.39	1,038.17	5,798.80	2,050.29	19,370.71
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	1,473.40	576.32	4,768.22	69.21	6,405.68
Steam or hydraulic plant.....					
Old plant.....					
Total plant.....	54,509.78	21,973.01	111,841.90	19,042.06	301,368.74
Bank and cash balance.....	256.39	759.85	6,935.52	9,169.14	
Securities and investments.....	4,500.00	3,500.00	3,500.00		45,000.00
Accounts receivable.....	85.16		570.03	950.89	11,160.55
Inventories.....	243.24		4,821.55		22,993.02
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	32,663.03	15,062.51	90,737.22	6,856.11	121,195.56
Other assets.....	0.32	17.00	50.95		185.93
Frequency standardization expenditure in suspense.....			8,611.00		
Total assets.....	92,257.92	41,312.37	227,068.17	36,018.20	501,903.80
LIABILITIES					
Debenture balance.....		1,929.43			14,088.79
Accounts payable.....	150.78	734.03	44.68	2,221.97	8,638.00
Bank overdraft.....					7,103.66
Other liabilities.....	930.00	5.00	1,529.97	117.50	5,419.57
Total liabilities.....	1,080.78	2,668.46	1,574.65	2,339.47	35,250.02
RESERVES					
For equity in H-E.P.C. systems.....	32,663.03	15,062.51	90,737.22	6,856.11	121,195.56
For depreciation.....	13,447.10	6,565.97	33,178.73	1,064.28	77,433.74
Other reserves.....			439.64		
Total reserves.....	46,110.13	21,628.48	124,355.59	7,920.39	198,629.30
SURPLUS					
Debentures paid.....	13,350.00	6,070.57	44,500.00	4,949.42	91,904.71
Local sinking fund.....					
Operating surplus.....	31,717.01	10,944.86	*56,637.93	20,808.92	176,119.77
Net frequency standardization expense charged this year.....					
Total surplus.....	45,067.01	17,015.43	101,137.93	25,758.34	268,024.48
Total liabilities, reserves and surplus.....	92,257.92	41,312.37	227,068.17	36,018.20	501,903.80
Percentage of net debt to total assets.....	1.8	10.2	1.2	8.0	9.3

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

“A”—Continued

Utilities as at December 31, 1950

Colborne	Coldwater	Collingwood	Comber	Cookstown	Cettam	Courtright
1,114	640	7,305	550	453	504	505
\$	\$	\$	\$	\$	\$	\$
.....	275.00	20,235.07	498.22	70.00	475.63	.....
15,356.17	14,474.31	23,504.35	14,647.02	392.95	12,661.28	7,796.32
.....	.....	85,062.85	.....	20,075.41	.....	.....
5,271.42	8,561.48	51,881.14	10,793.56	4,704.88	4,657.82	2,804.16
6,251.28	5,441.45	43,774.58	4,320.09	3,460.02	3,812.64	2,449.31
2,629.54	3,828.64	22,415.32	999.78	1,543.85	464.37	470.44
.....
4,615.50	229.83	3,402.67	243.24	37.10	225.14	8.30
.....
.....
34,123.91	32,810.71	250,275.98	31,501.91	30,284.21	22,296.88	13,528.53
.....
662.31	6,598.10	7,814.60	176.02	1,711.76	4,883.06	1,476.61
5,000.00	8,500.00	15,000.00	.....	.....	3,000.00	3,000.00
2,138.37	1,921.60	2,762.33	10.22	120.84	.....	234.78
7,569.80	74.00	8,481.37	73.99	.....	80.05	.....
.....
12,367.91	26,353.46	264,643.88	32,627.04	10,835.12	9,635.36	10,877.77
.....	.....	4,111.35	.....	.....	.....	.....
.....
61,862.30	76,257.87	553,089.51	64,389.18	42,951.93	39,895.35	29,117.69
.....
1,098.03	.....	.....	.....	.....	.....	.....
.....	551.64	83.67	4,084.25	.....	.....	.....
.....
383.00	110.37	4,548.21	93.23	64.25	115.71	35.00
.....
1,481.03	662.01	4,631.88	4,177.48	64.25	115.71	35.00
.....
12,367.91	26,353.46	264,643.88	32,627.04	10,835.12	9,635.36	10,877.77
4,508.35	10,282.15	60,574.79	5,216.52	2,077.55	7,415.81	3,542.28
.....	46.00	150.00	25.38	.....	37.95	5.24
.....
16,876.26	36,681.61	325,368.67	37,868.94	12,912.67	17,089.12	14,425.29
.....
11,096.56	6,867.47	38,183.42	7,700.00	12,000.85	9,000.22	8,138.35
.....
32,408.45	32,046.78	184,905.54	14,642.76	17,974.16	13,690.30	7,571.42
.....	.....	.....	.....	.....	.....	1,052.37
.....
43,505.01	38,914.25	223,088.96	22,342.76	29,975.01	22,690.52	14,657.40
.....
61,862.30	76,257.87	553,089.51	64,389.18	42,951.93	39,895.35	29,117.69
.....
3.0	1.3	1.6	13.2	0.2	0.4	0.2

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Creemore	Dashwood	Delaware	Delhi	Deseronto
Population	738	366	332	2,506	1,473
ASSETS	\$	\$	\$	\$	\$
Lands and buildings				2,472.54	1,097.41
Substation equipment					161.18
Distribution system—overhead....	12,085.30	4,225.55	7,812.95	48,191.60	19,938.02
Distribution system—underground.					
Line transformers	6,746.69	5,401.77	1,970.47	27,045.97	11,862.75
Meters	5,372.81	2,937.25	1,850.82	22,300.07	8,423.38
Street light equipment, regular....	358.56	364.52	245.78	6,579.14	2,483.52
Street light equipment, ornamental					
Miscellaneous construction expense				7,535.68	2,603.14
Steam or hydraulic plant					
Old plant				28,518.74	
Total plant	24,563.36	12,929.09	11,880.02	142,643.74	46,569.40
Bank and cash balance	6,155.58	887.33	292.04	10,481.82	2,526.08
Securities and investments		3,000.00	2,000.00	18,500.00	6,000.00
Accounts receivable	242.70	123.06	98.92	12.34	3,855.67
Inventories	60.25		1,950.84	12,183.89	7,022.79
Sinking fund on local debentures..					
Equity in H-E.P.C. systems	22,340.69	16,471.69	7,053.92	23,197.42	17,442.84
Other assets	271.88			115.72	
Frequency standardization expenditure in suspense			98.55	5.35	
Total assets	53,634.46	33,411.17	23,374.29	207,140.28	83,416.78
LIABILITIES					
Debenture balance				44,802.29	
Accounts payable	445.28	22.45	76.85	480.05	766.73
Bank overdraft					
Other liabilities	191.00		20.00	2,122.14	431.89
Total liabilities	636.28	22.45	96.85	47,404.48	1,198.62
RESERVES					
For equity in H-E.P.C. systems....	22,340.69	16,471.69	7,053.92	23,197.42	17,442.84
For depreciation	4,042.32	3,026.46	1,076.55	21,436.81	3,634.14
Other reserves	41.00		22.53	31.22	
Total reserves	26,424.01	19,498.15	8,153.00	44,665.45	21,076.98
SURPLUS					
Debentures paid	2,823.61	3,400.00	4,000.00	40,197.71	15,000.00
Local sinking fund					
Operating surplus	23,750.56	10,490.57	*11,124.44	*74,872.64	46,141.18
Net frequency standardization expense charged this year					
Total surplus	26,574.17	13,890.57	15,124.44	115,070.35	61,141.18
Total liabilities, reserves and surplus.	53,634.46	33,411.17	23,374.29	207,140.28	83,416.78
Percentage of net debt to total assets.	2.0	0.1	0.6	25.8	1.8

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

"A"—Continued

Utilities as of December 31, 1950

Dorchester 483	Drayton 614	Dresden 2,050	Drumbo 334	Dublin 201	Dundalk 804	Dundas 6,547
\$	\$	\$	\$	\$	\$	\$
12,544.56	11,525.51	23,483.17 523.00 35,118.03	6,610.05	6,956.88	218.00 9,582.51	22,277.88 25,262.61 79,130.43
5,061.10	7,900.22	15,696.77	4,844.58	3,730.63	7,561.27	44,008.85
4,284.67	4,915.08	14,711.76	3,253.22	1,897.35	4,948.46	41,048.32
3,048.18	1,076.65	1,843.95	483.79	659.43	1,418.50	12,817.77
504.40	589.50	3,628.52			163.10	3,937.50
25,442.91	26,006.96	95,005.20	15,191.64	13,244.29	23,891.84	228,483.36
1,925.97	406.10	4,186.37	3,081.51	5,675.40	5,546.25	2,727.12
5,700.00	4,500.00	6,500.00	8,500.00	1,500.00	15,000.00	20,500.00
94.48	330.40	2,699.63	638.32	115.05	135.17	2,955.03
224.41		5,365.49	22.30			
14,724.48	24,498.87 32.50	62,795.61 121.74	13,032.76	10,306.95	25,109.67	275,782.72 917.87
13.69						315.00
48,125.94	55,774.83	176,674.04	40,466.53	30,841.69	69,682.93	531,681.10
828.75		20,000.00 5,785.20	1,100.76	72.60	84.55	1,180.92 6,187.00
64.22	40.00	443.00	300.00	8.00		10,177.12
892.97	40.00	26,228.20	1,400.76	80.60	84.55	17,545.04
14,724.48	24,498.87	62,795.61	13,032.76	10,306.95	25,109.67	275,782.72
7,115.42	8,384.85	5,232.72	7,991.00	6,859.94	8,636.55	87,817.05
		605.34				134.66
21,839.90	32,883.72	68,633.67	21,023.76	17,166.89	33,746.22	363,734.43
4,300.00	9,500.00	11,423.24	4,500.00	6,200.00	5,727.27	53,000.00
*21,093.07	13,351.11	70,388.93	13,542.01	7,394.20	30,124.89	*97,401.63
25,393.07	22,851.11	81,812.17	18,042.01	13,594.20	35,852.16	150,401.63
48,125.94	55,774.83	176,674.04	40,466.53	30,841.69	69,682.93	531,681.10
2.7	0.1	23.0	5.1	0.4	0.2	6.9

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Dunnville	Durham	Dutton	East York Twp.
Population	4,440	2,294	863	60,155
ASSETS				
Lands and buildings	\$ 7,323.56	\$ 210.28	\$ 75.11	\$ 73,742.35
Substation equipment	40,761.22			207,760.71
Distribution system—overhead	53,463.86	27,726.10	11,794.58	659,629.87
Distribution system—underground				
Line transformers	38,896.19	20,129.75	8,120.08	318,930.56
Meters	31,295.55	12,359.75	4,687.75	288,899.74
Street light equipment, regular	12,615.54	3,671.33	2,621.20	109,683.82
Street light equipment, ornamental				
Miscellaneous construction expense	2,607.66	1,626.93	218.59	37,176.84
Steam or hydraulic plant				
Old plant				
Total plant	186,963.58	65,724.14	27,517.31	1,695,823.89
Bank and cash balance	70.00	5,336.75	2,216.47	40,924.72
Securities and investments	30,000.00	2,000.00	7,500.00	
Accounts receivable	1,393.80	598.64	394.62	74,624.89
Inventories	4,015.14			25,182.80
Sinking fund on local debentures				
Equity in H-E.P.C. systems	127,191.16	57,590.53	36,704.02	640,647.1
Other assets		163.86	1.14	606.16
Frequency standardization expenditure in suspense	170.00			300,718.21
Total assets	349,803.68	131,413.92	74,333.56	2,778,527.83
LIABILITIES				
Debenture balance				430,000.00
Accounts payable		228.09	3,454.73	196,078.49
Bank overdraft	8,569.42			
Other liabilities	2,529.61	38.00	152.36	13,225.96
Total liabilities	11,099.03	266.09	3,607.09	639,304.45
RESERVES				
For equity in H-E.P.C. systems	127,191.16	57,590.53	36,704.02	640,647.16
For depreciation	55,656.98	15,661.09	10,324.09	283,707.11
Other reserves				14,190.67
Total reserves	182,848.14	73,251.62	47,028.11	938,544.94
SURPLUS				
Debentures paid	75,500.00	25,323.97	8,407.49	349,763.36
Local sinking fund				
Operating surplus	*80,356.51	32,572.24	15,290.87	*850,915.08
Net frequency standardization expense charged this year				
Total surplus	155,856.51	57,896.21	23,698.36	1,200,678.44
Total liabilities, reserves and surplus	349,803.68	131,413.92	74,333.56	2,778,527.83
Percentage of net debt to total assets	5.0	0.4	9.6	34.8

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

"A"—Continued

Utilities as at December 31, 1950

Elmira	Elmvale	Elmwood	Elora	Embro	Erieau	Erie Beach
2,510	785	.....	1,321	446	404	59
\$	\$	\$	\$	\$	\$	\$
23,888.09	156.25	1,709.66	4,584.26	.....	.....	.....
47,047.02	2,273.07	.....	.....	.....	.....	.....
55,167.31	15,013.87	6,218.09	22,333.44	12,696.84	22,129.01	4,466.06
1,030.41	.....	.....	.....	.....	.....	.....
34,047.95	8,535.25	3,105.49	16,583.88	9,415.34	10,955.75	1,559.32
22,108.78	7,482.29	2,731.53	9,411.51	3,585.42	5,642.75	1,603.77
2,889.33	6,009.93	721.69	1,732.53	535.73	794.23	306.37
.....
1,160.31	45.45	.....	2,260.70	712.44	.....	.....
.....
.....
187,339.20	39,516.11	14,486.46	56,906.32	26,945.77	39,521.74	7,935.52
16,156.90	4,404.98	5,625.85	191.79	4,205.58	3,553.71	.....
.....	1,500.00	3,100.00	7,500.00	3,500.00	1,000.00	1,000.00
8,114.31	226.73	43.29	196.53	45.19	317.08	80.79
.....	14.06	.....	182.91	.....	.....	.....
148,351.66	27,156.06	8,597.02	68,974.52	21,255.46	15,274.22	3,310.21
433.93	.....	10.41	.....	.....	1,187.40	.....
2,525.00	.....	.....	.....	.....	.....	.....
362,921.00	72,817.94	31,863.03	133,952.07	55,952.00	60,854.15	12,326.52
.....
94.52	562.74	148.43	184.99	1,087.09	349.96	37.78
.....	.....	.....	.....	.....	.....	1,379.92
1,305.37	.....	1,320.00	388.25	30.00	37.50	165.00
1,399.89	562.74	1,468.43	573.24	1,117.09	387.46	1,582.70
148,351.66	27,156.06	8,597.02	68,974.52	21,255.46	15,274.22	3,310.21
42,186.49	6,558.24	5,039.87	20,746.08	7,898.63	5,887.13	498.41
.....	3.68	.....	.....	.....	37.41	18.90
190,538.15	33,717.98	13,636.89	89,720.60	29,154.09	21,198.76	3,827.52
37,168.50	6,544.07	6,106.38	13,000.00	7,500.00	6,883.13	3,300.00
*133,814.46	31,993.15	10,651.33	30,658.23	18,180.82	32,384.80	3,616.30
.....
170,982.96	38,537.22	16,757.71	43,658.23	25,680.82	39,267.93	6,916.30
362,921.00	72,817.94	31,863.03	133,952.07	55,952.00	60,854.15	12,326.52
0.7	1.2	6.0	0.9	3.2	0.9	17.6

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Erin	Essex	Etobicoke Twp. (V.A.)	Exeter
Population.....	625	2,758		2,624
ASSETS	\$	\$	\$	\$
Lands and buildings.....		11,913.64	47,779.91	9,954.19
Substation equipment.....			96,727.08	
Distribution system—overhead.....	13,138.39	61,184.88	877,954.55	47,838.12
Distribution system—underground.....		442.55		
Line transformers.....	2,019.50	29,938.33	422,327.20	27,112.78
Meters.....	2,093.12	18,168.42	244,183.36	18,535.52
Street light equipment, regular.....	764.52	3,066.35	121,922.31	5,414.19
Street light equipment, ornamental.....				
Miscellaneous construction expense..	257.79	3,858.33	122,766.00	4,669.76
Steam or hydraulic plant.....				
Old plant.....				
Total plant.....	18,273.32	128,572.50	1,933,660.41	113,524.56
Bank and cash balance.....		735.23	11,702.68	5,262.09
Securities and investments.....			7,000.00	10,500.00
Accounts receivable.....	3,122.30	1,014.76	35,101.08	1,569.94
Inventories.....		5,132.97	74,388.21	3,206.08
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....		64,578.05	558,157.40	85,053.12
Other assets.....			116.42	0.54
Frequency standardization expenditure in suspense.....			23,011.52	47.39
Total assets.....	21,395.62	200,033.51	2,643,137.72	219,163.72
LIABILITIES				
Debenture balance.....	14,500.00	5,426.41	513,300.00	
Accounts payable.....	187.44		304,794.24	
Bank overdraft.....	1,291.10	1,694.44	79,661.92	
Other liabilities.....		685.23	17,852.68	1,570.00
Total liabilities.....	15,978.54	7,806.08	915,608.84	1,570.00
RESERVES				
For equity in H-E.P.C. systems.....		64,578.05	558,157.40	85,053.12
For depreciation.....	1,839.40	33,818.82	205,424.66	33,474.82
Other reserves.....		438.65	8,094.94	60.16
Total reserves.....	1,839.40	98,835.52	771,677.00	118,588.10
SURPLUS				
Debentures paid.....		17,073.59	302,395.40	20,000.05
Local sinking fund.....				
Operating surplus.....	3,577.68	76,318.32	*653,456.48	*79,005.57
Net frequency standardization expense charged this year.....				
Total surplus.....	3,577.68	93,391.91	955,851.88	99,005.62
Total liabilities, reserves and surplus..	21,395.62	200,033.51	2,643,137.72	219,163.72
Percentage of net debt to total assets..	74.7	5.8	44.4	1.2

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

“A”—Continued

Utilities as at December 31, 1950

Fergus 3,291	Finch 388	Flesherton 468	Fonthill 1,386	Forest 1,793	Forest Hill 16,191	Frankford 1,323
\$ 2,442.52 27,539.89 46,891.21	\$ 9,181.99	\$ 408.78 7,541.42	\$ 21,766.60	\$ 6,576.61 25,940.97	\$ 45,946.27 200,911.97 257,437.52 5,152.02 148,830.74 85,071.32 14,268.32	\$ 16,748.86 4,362.99 6,170.29 2,748.04
33,872.63 22,658.69 7,810.06	4,512.42 3,481.42 504.07	5,714.67 3,493.75 1,260.28	11,424.09 10,531.03 3,505.91	19,532.75 13,839.34 7,025.37	25,016.22	189.14
2,300.49	194.44	89.23	2,144.52	2,588.30		
143,515.49	17,874.34	18,508.13	49,372.15	75,503.34	782,634.38	30,219.32
1,583.65	4,556.42	5,251.07	450.08	7,267.22	46,302.44	6,400.69
1,077.38	6,000.00	9,000.00		33,510.00	74,000.00	
1,932.39	251.05	178.13	323.12	504.43	2,527.14	435.28
131,600.01	9,719.83	12,060.42	14,900.33	2,179.36	21,882.52	
240.00				69,127.66	418,225.59	107.46
279,948.92	38,401.64	45,017.05	65,045.68	1,618.24	4,715.62	
7,086.67			4,000.00	189,710.25	1,350,287.69	37,162.75
1,050.94	205.95	74.00	369.30	35.78	133,506.91	18,000.00
8,137.61	205.95	74.00	4,369.30	113.86	5,982.91	1,401.91
131,600.01	9,719.83	12,060.42	14,900.33	149.64	15,230.10	588.41
29,078.17	3,950.67	5,691.77	6,790.91	154,719.92	19,990.32	
198.59				69,127.66	418,225.59	107.46
160,876.77	13,670.50	17,752.19	21,691.24	31,339.78	208,533.96	4,961.64
42,000.00	7,000.00	5,830.88	22,500.00	85.89	750.00	
*68,934.54	17,525.19	21,359.98	16,485.14			
110,934.54	24,525.19	27,190.86	38,985.14	23,357.13	229,274.69	2,000.00
279,948.92	38,401.64	45,017.05	65,045.68	*65,650.15	*338,783.53	10,103.33
5.5	0.7	0.2	8.7	89,007.28	568,058.22	12,103.33
				189,710.25	1,350,287.69	37,162.75
				0.1	16.7	53.9

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Galt	Georgetown	Glencoe	Goderich
Population	18,306	3,406	922	4,991
ASSETS	\$	\$	\$	\$
Lands and buildings	254,351.29	5,586.06	3,587.66	71,568.46
Substation equipment	217,861.13	18,491.00		35,860.04
Distribution system—overhead	354,225.87	63,688.74	27,292.85	88,126.15
Distribution system—underground	4,230.40			
Line transformers	194,208.19	45,684.36	12,446.64	46,761.32
Meters	128,610.12	30,921.12	6,649.87	36,238.33
Street light equipment, regular	95,074.27	5,840.20	6,483.12	10,829.09
Street light equipment, ornamental				
Miscellaneous construction expense	25,390.65	8,982.33	1,616.90	13,970.96
Steam or hydraulic plant				
Old plant				
Total plant	1,273,951.92	179,193.81	58,077.04	303,354.35
Bank and cash balance	830.37	1,250.61	9,302.97	13,105.84
Securities and investments		5,067.49	15,100.00	2,000.00
Accounts receivable	10,529.33	427.10	913.16	6,198.37
Inventories	81,590.76	7,603.23	636.65	2,996.15
Sinking fund on local debentures				
Equity in H-E.P.C. systems	1,079,063.83	209,749.06	38,915.03	236,339.58
Other assets	83,958.63	178.50	35.26	569.14
Frequency standardization expenditure in suspense	21,720.08		55.71	31.00
Total assets	2,551,644.92	403,469.80	123,035.82	564,594.43
LIABILITIES				
Debenture balance				4,823.47
Accounts payable	230.04	8,748.64	2,741.97	9,589.01
Bank overdraft	22,283.33			
Other liabilities	9,023.98	4,538.75	357.42	4,250.81
Total liabilities	31,537.35	13,287.39	3,099.39	18,663.29
RESERVES				
For equity in H-E.P.C. systems	1,079,063.83	209,749.06	38,915.03	236,339.58
For depreciation	516,393.28	41,313.15	19,337.27	114,133.65
Other reserves	5,353.52		351.64	819.63
Total reserves	1,600,810.63	251,062.21	58,603.94	351,292.86
SURPLUS				
Debentures paid	518,001.95	20,000.00	20,112.88	91,264.58
Local sinking fund				
Operating surplus	*401,294.99	119,120.20	*41,219.61	*103,373.70
Net frequency standardization expense charged this year				
Total surplus	919,296.94	139,120.20	61,332.49	194,638.28
Total liabilities, reserves and surplus	2,551,644.92	403,469.80	123,035.82	564,594.43
Percentage of net debt to total assets	2.1	6.9	3.7	5.7

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

“A”—Continued

Utilities as at December 31, 1950

Grand Valley 591	Granton 257	Gravenhurst 3,365	Grimsby 2,574	Guelph 26,617	Hagersville 1,696	Hamilton 196,246
\$ 36.50	\$	\$ 15,684.91	\$	\$ 25,257.87	\$ 2,500.00	\$ 1,780,575.62
14,185.56	6,641.17	10,936.03	49,807.22	222,444.99	864.37	3,185,195.43
6,378.38	3,161.77	47,113.74	28,447.47	398,014.20	25,607.88	1,872,179.13
5,872.52	2,230.28	1,941.77	211,156.52	28,847.47	1,157,995.21	1,481,592.04
1,104.37	180.78	23,365.31	22,534.17	19,647.11	14,250.51	1,186,122.98
		24,275.66	5,444.68	163,856.20	1,311.22	427,737.68
		8,123.61		51,885.71		
		1,228.74		11,111.43	2,112.41	83,403.00
27,577.33	12,214.00					
3,286.26	1,158.18	132,669.77	106,267.12	1,112,574.39	66,293.50	11,174,801.09
11,000.00		2,673.08	2,176.34	13,227.64	2,830.98	120,146.38
119.29	82.82	12,000.00	36,000.00	32,000.00	32,000.00	1,050,000.00
		1,281.63	173.71	13,076.64	289.69	758,755.91
		1,185.75	81.84	59,920.64	343.16	427,161.72
23,077.24	14,504.05	70,392.72	20,301.77	1,265,510.75	140,565.08	11,488,697.02
		7.10		80.00	1.86	128,572.58
			75.00	496.70		16,372.62
65,060.12	27,959.05	220,210.05	165,075.78	2,464,886.76	242,324.27	25,164,507.32
				95,000.00		
	895.55	145.80	1,688.60	51,751.83	130.03	505,175.37
	45.00	1,440.00	1,619.29	11,040.25	669.43	39,858.38
	940.55	1,585.80	3,307.89	157,792.08	799.46	545,033.75
23,077.24	14,504.05	70,392.72	20,301.77	1,265,510.75	140,565.08	11,488,697.02
13,878.44	1,843.87	31,990.73	18,745.97	334,604.39	25,118.56	2,529,478.83
	60.00	472.91		701.57		1,543,512.54
36,955.68	16,407.92	102,856.36	39,047.74	1,600,816.71	165,683.64	15,561,688.39
10,794.30	3,500.00	44,278.97	85,344.00	150,000.00	8,000.00	4,060,275.19
17,310.14	7,110.58	71,488.92	*37,376.15	*556,277.97	67,841.17	*5,000,340.08
						2,830.09
28,104.44	10,610.58	115,767.89	122,720.15	706,277.97	75,841.17	9,057,785.18
65,060.12	27,959.05	220,210.05	165,075.78	2,464,886.76	242,324.27	25,164,507.32
0.0	7.0	1.0	2.3	13.2	0.8	3.9

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Hanover	Harriston	Harrow	Hastings	Havelock
Population.....	3,766	1,536	1,503	800	1,246
ASSETS	\$	\$	\$	\$	\$
Lands and buildings.....	25,651.71	395.25	2,318.16		
Substation equipment.....	9,271.19	600.00			572.90
Distribution system—overhead.....	63,002.48	35,535.51	30,395.50	24,177.29	22,293.93
Distribution system—underground.....					
Line transformers.....	37,709.89	17,639.48	17,948.96	6,071.39	5,422.23
Meters.....	27,009.85	11,396.20	11,665.69	6,757.80	8,303.20
Street light equipment, regular.....	5,894.96	6,265.43	3,292.36	1,577.62	2,074.57
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	5,758.12	3,175.29	45.61	669.85	6,286.86
Steam or hydraulic plant.....					
Old plant.....				1,733.13	
Total plant.....	174,298.20	75,007.16	65,666.28	40,987.08	44,953.69
Bank and cash balance.....	3,223.85	1,445.38	5,766.88	2,613.30	3,952.89
Securities and investments.....	87,938.18		13,700.00	6,000.00	14,500.00
Accounts receivable.....	1,314.12	930.40	772.99	116.19	37.92
Inventories.....	547.80	45.63	422.44		
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	154,865.51	66,154.62	55,719.23	9,345.46	23,190.84
Other assets.....		3,731.62			
Frequency standardization expenditure in suspense.....		350.88			
Total assets.....	422,187.66	147,665.69	142,047.82	59,062.03	86,635.34
LIABILITIES					
Debenture balance.....				1,665.66	
Accounts payable.....		3,266.14	288.03	396.12	189.91
Bank overdraft.....					
Other liabilities.....	1,242.00	162.21	550.00	603.47	133.00
Total liabilities.....	1,242.00	3,428.35	838.03	2,665.25	322.91
RESERVES					
For equity in H-E.P.C. systems.....	154,865.51	66,154.62	55,719.23	9,345.46	23,190.84
For depreciation.....	83,684.18	19,388.80	20,266.78	9,647.99	16,121.20
Other reserves.....			130.17		
Total reserves.....	238,549.69	85,543.42	76,116.18	18,993.45	39,312.04
SURPLUS					
Debentures paid.....	80,162.29	25,818.03	12,000.00	19,334.34	26,234.18
Local sinking fund.....					
Operating surplus.....	102,233.68	*32,875.89	53,093.61	18,068.99	20,766.21
Net frequency standardization expense charged this year.....					
Total surplus.....	182,395.97	58,693.92	65,093.61	37,403.33	47,000.39
Total liabilities, reserves and surplus.....	422,187.66	147,665.69	142,047.82	59,062.03	86,635.34
Percentage of net debt to total assets.....	0.5	4.2	1.0	5.3	0.5

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

"A"—Continued

Utilities as of December 31, 1950

Hensall 666	Hespeler 3,696	Highgate 355	Holstein 176	Humber- stone 3,722	Huntsville 3,340	Ingersoll 6,431
\$	\$	\$	\$	\$	\$	\$
.....	17,571.77	.....	.....	26,809.12	353.52	17,720.11
.....	62,110.62	.....	.....	.....	647.30	51,338.29
16,584.88	52,190.04	10,159.36	2,795.59	37,765.94	34,226.03	76,264.39
.....
12,640.16	47,583.32	3,755.63	2,053.41	22,024.99	31,822.17	63,015.86
6,423.36	20,910.51	2,326.94	1,280.62	17,954.79	23,825.21	45,846.81
3,556.77	14,916.84	3,090.72	215.54	1,739.26	10,910.03	7,487.72
.....
251.28	5,226.05	.....	53.51	3,514.26	1,112.95	2,190.39
.....
.....
39,456.45	220,509.15	19,332.65	6,398.67	109,808.36	102,897.21	263,863.57
.....
5,396.00	7,750.88	1,165.24	2,252.84	447.93	169.32	5,116.90
10,000.00	10,000.00	3,000.00	4,500.00	.....	7,000.00	.....
92.64	18,250.30	22.99	.....	17.45	2,135.96	1,869.05
.....	875.15	.....	.....	1,535.48	8,507.93	1,254.40
.....
32,551.96	240,246.88	17,420.37	4,983.47	45,674.77	119,923.90	354,658.77
15.00	427.77	.....	.....	116.67	412.98	1,924.33
.....
.....	2,305.00	.....	.....	.....	.....	155.00
87,512.05	500,365.13	40,941.25	18,134.98	157,600.66	241,047.30	628,842.02
.....
.....	1,019.93	5.96	500.00	3,163.30	.....	17,715.38
.....
20.00	1,775.00	80.00	50.00	1,478.70	931.77	2,740.35
.....
20.00	2,794.93	85.96	550.00	4,642.00	931.77	20,455.73
.....
32,551.96	240,246.88	17,420.37	4,983.47	45,674.77	119,923.90	354,658.77
14,602.21	24,436.42	7,665.41	2,163.74	10,328.00	19,712.00	43,145.78
.....	105.17	.....	.....	.....	129.14	231.22
.....
47,154.17	264,788.47	25,085.78	7,147.21	56,002.77	139,765.04	398,035.77
.....
12,000.00	77,570.51	5,000.00	2,762.05	32,000.00	15,697.39	79,800.00
28,337.88	*155,211.22	10,769.51	7,675.72	64,955.89	84,653.10	*130,550.52
.....
40,337.88	232,781.73	15,769.51	10,437.77	96,955.89	100,350.49	210,350.52
.....
87,512.05	500,365.13	40,941.25	18,134.98	157,600.66	241,047.30	628,842.02
.....
0.0	1.1	0.4	4.2	4.1	0.8	7.5

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Iroquois	Jarvis	Kemptville	Kincardine
Population.....	1,036	644	1,542	2,790
ASSETS	\$	\$	\$	\$
Lands and buildings.....	281.20		5,035.34	6,740.17
Substation equipment.....	100.00			7,512.39
Distribution system—overhead.....	12,360.73	12,776.28	30,230.50	63,391.92
Distribution system—underground.....				
Line transformers.....	4,522.13	8,032.24	18,146.05	30,727.75
Meters.....	6,374.18	4,007.55	13,283.79	20,203.97
Street light equipment, regular.....	2,676.23	977.33	1,267.40	10,448.89
Street light equipment, ornamental.....				
Miscellaneous construction expense.....	346.27	156.16	556.45	263.21
Steam or hydraulic plant.....				
Old plant.....	575.00			
Total plant.....	27,235.74	25,949.56	68,519.53	139,288.30
Bank and cash balance.....	1,466.33	634.83	1,865.00	10,427.89
Securities and investments.....	10,000.00	10,000.00	6,000.00	25,000.00
Accounts receivable.....	321.30	377.13	3,112.86	824.64
Inventories.....	820.42		3,549.87	
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....	6,961.60	28,842.26	41,032.89	86,550.05
Other assets.....		937.09		353.56
Frequency standardization expenditure in suspense.....				
Total assets.....	46,805.39	66,740.87	124,080.15	262,444.44
LIABILITIES				
Debenture balance.....				
Accounts payable.....	188.05	423.13	831.16	70.48
Bank overdraft.....				
Other liabilities.....	486.60		3,216.69	702.32
Total liabilities.....	674.65	423.13	4,047.85	772.80
RESERVES				
For equity in H-E.P.C. systems.....	6,961.60	28,842.26	41,032.89	86,550.05
For depreciation.....	4,752.52	1,539.33	12,766.80	29,403.78
Other reserves.....			354.98	39.62
Total reserves.....	11,714.12	30,381.59	54,154.67	115,993.45
SURPLUS				
Debentures paid.....		10,500.00	19,506.62	60,000.00
Local sinking fund.....				
Operating surplus.....	34,416.62	25,436.15	46,371.01	85,678.19
Net frequency standardization expense charged this year.....				
Total surplus.....	34,416.62	35,936.15	65,877.63	145,678.19
Total liabilities, reserves and surplus.....	46,805.39	66,740.87	124,080.15	262,444.44
Percentage of net debt to total assets.....	1.7	1.1	4.9	0.4

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

“A”—Continued

Utilities as at December 31, 1950

Kingston	Kingsville	Kirkfield	Kitchener	Lakefield	Lambeth	Lanark
32,924	2,560	165	43,084	1,740	867	748
\$	\$	\$	\$	\$	\$	\$
366,112.59	8,730.87		333,219.50	3,532.97		
390,601.89			653,621.11			
360,111.48	46,060.80	6,248.10	701,746.38	30,109.92	20,054.31	13,007.57
363,575.18			216,751.90			
205,637.33	21,738.21	1,621.50	403,304.97	15,227.15	6,592.87	7,392.12
208,537.52	22,106.05	1,160.66	286,570.53	12,031.58	6,437.91	4,873.70
95,114.30	2,387.01	471.81	95,653.71	3,184.47	1,248.80	1,555.77
19,407.56	1,002.05		63,868.37	1,792.41		30.82
17,364.60						
				3,445.25		
2,026,462.45	102,024.99	9,502.07	2,754,736.47	69,323.75	34,333.89	26,859.98
			175.00			
873.04	3,014.56	1,848.29		6,827.19	3,238.77	8,551.63
230,000.00	21,500.00	3,000.00		25,000.00		
89,965.26	900.95	216.08	161,836.37	385.47	1,793.27	
57,321.97	2,554.25		111,370.14	2,339.84		
421,380.04	80,989.50	5,945.38	2,575,654.01	28,973.90	18,775.36	12,913.15
285.91			2,126.22			
	2,742.12		1,102.80			
2,826,288.67	213,726.37	20,511.82	5,607,001.01	132,850.15	58,141.29	48,324.76
	8,433.17				11,500.00	
81,329.95	939.71	883.22	129,570.96	1,051.20	3,055.92	25.35
26,813.00			102,546.38			
14,135.87	2,569.75		13,361.32	579.53	185.00	120.00
122,278.82	11,942.63	883.22	245,478.66	1,630.73	14,740.92	145.35
421,380.04	80,989.50	5,945.38	2,575,654.01	28,973.90	18,775.36	12,913.15
531,986.25	35,925.51	4,117.01	588,689.73	20,476.39	8,167.50	2,974.69
250,000.00	388.66	200.00	6,402.69		16.85	
1,203,366.29	117,303.67	10,262.39	3,170,746.43	49,450.29	26,959.71	15,887.84
274,339.08	25,066.83	5,765.89	737,150.00	30,365.63	4,000.00	7,316.57
1,226,304.48	*59,413.24	3,600.32	*1,453,625.92	51,403.50	12,440.66	24,975.00
1,500,643.56	84,480.07	9,366.21	2,190,775.92	81,769.13	16,440.66	32,291.57
2,826,288.67	213,726.37	20,511.82	5,607,001.01	132,850.15	58,141.29	48,324.76
5.1	9.0	6.1	8.1	1.6	37.5	0.4

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Lancaster	La Salle	Leaming-ton	Lindsay	Listowel
Population	534	1,580	7,525	9,349	3,255
ASSETS	\$	\$	\$	\$	\$
Lands and buildings		1,210.68	36,105.25	20,600.15	1,459.49
Substation equipment			8,288.84	3,176.56	3,848.00
Distribution system—overhead	8,905.31	41,040.47	87,565.52	149,115.27	69,143.19
Distribution system—underground			38,036.91	23,601.52	7,090.76
Line transformers	2,227.75	15,100.76	46,825.20	69,080.23	37,028.52
Meters	2,715.80	11,436.37	46,463.52	65,047.52	26,356.25
Street light equipment, regular	650.65	1,807.17	4,195.32	15,876.58	5,505.73
Street light equipment, ornamental					
Miscellaneous construction expense	14.95	736.87	1,979.47	8,887.16	5,913.28
Steam or hydraulic plant					
Old plant					
Total plant	14,514.46	71,332.32	269,460.03	355,384.99	156,345.22
Bank and cash balance	3,444.01		2,374.18	494.62	6,803.63
Securities and investments	3,000.00		2,000.00	15,000.00	5,000.00
Accounts receivable	577.64	3,168.53	5,254.08	1,641.01	1,065.76
Inventories		163.67	10,092.29	14,472.34	538.85
Sinking fund on local debentures					
Equity in H-E.P.C. systems	11,204.28	30,090.85	188,860.29	226,954.30	157,829.17
Other assets		8.78	0.36		160.09
Frequency standardization expenditure in suspense			10.00		196.60
Total assets	32,740.39	104,764.15	478,051.23	613,947.26	327,939.32
LIABILITIES					
Debenture balance					
Accounts payable	497.73	15,413.95	55.35		441.64
Bank overdraft		122.24			
Other liabilities	142.86	939.74	4,010.56	6,565.80	1,070.49
Total liabilities	640.59	16,475.93	4,065.91	6,565.80	1,512.13
RESERVES					
For equity in H-E.P.C. systems	11,204.28	30,090.85	188,860.29	226,954.30	157,829.17
For depreciation	5,328.36	15,465.17	66,785.80	69,528.85	70,084.86
Other reserves		164.06	116.75		
Total reserves	16,532.64	45,720.08	255,762.84	296,483.15	227,914.03
SURPLUS					
Debentures paid	8,916.82	15,500.00	48,000.00	129,313.04	43,189.89
Local sinking fund					
Operating surplus	6,650.34	27,068.14	*170,222.48	181,585.27	*55,323.27
Net frequency standardization expense charged this year					
Total surplus	15,567.16	42,568.14	218,222.48	310,898.31	98,513.16
Total liabilities, reserves and surplus	32,740.39	104,764.15	478,051.23	613,947.26	327,939.32
Percentage of net debt to total assets	2.9	22.1	1.4	1.7	0.9

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

"A"—Continued

Utilities as at December 31, 1950

London 94,027	London Twp. (V.A.)	Long Branch 8,044	Lucan 915	Lucknow 891	Lynden 434	Madoc 1,624
\$	\$	\$	\$	\$	\$	\$
526,894.37			375.45		241.18	100.00
1,545,810.63						
1,051,941.01	37,378.39	93,082.72	16,628.20	26,886.86	7,234.04	32,095.65
844,334.19						
762,701.09	16,329.04	52,242.72	8,347.63	15,732.98	5,068.68	9,107.17
612,285.63	12,204.61	40,764.56	6,140.66	7,842.99	3,563.16	9,210.71
109,441.67	2,142.23	20,510.82	5,034.81	3,911.43	711.23	1,677.96
314,856.31	237.82	37.15	1,596.28	621.99		183.27
5,768,264.90	68,292.09	206,637.97	38,123.03	54,996.25	16,818.29	52,374.76
17,880.35		1,796.57	3,019.80	5,010.92	839.89	5,390.72
206,500.00	4,000.00	55,000.00	5,500.00	22,000.00	3,000.00	
305,077.95	649.22	13,643.58	53.91	338.86	100.95	551.82
269,498.74						3,171.65
4,574,692.00	45,349.79	76,302.15	33,255.46	41,563.25	22,826.94	18,373.39
154,456.01			5.00			
109,101.30	62.86	955.00	12.00			
11,405,471.25	118,353.96	354,335.27	79,969.20	123,909.28	43,586.07	79,862.34
185,608.80	1,805.27	18,603.98	1,338.34	2,180.70	195.34	998.34
243,374.85	1,012.24					
21,600.04	404.00	3,796.57	607.00		19.32	500.84
450,583.69	3,221.51	22,400.55	1,945.34	2,180.70	214.66	1,499.18
4,574,692.00	45,349.79	76,302.15	33,255.46	41,563.25	22,826.94	18,373.39
2,118,057.12	18,345.81	34,027.54	11,301.48	3,769.83	5,241.44	3,656.00
208,539.16	3.82	339.01		490.75		
6,901,288.28	63,699.42	110,668.70	44,556.94	45,823.83	28,068.38	22,029.39
1,732,047.27	19,000.00	40,304.60	11,213.62	17,614.08	4,495.00	14,000.00
*2,360,899.17	*32,433.03	*180,961.42	*22,253.30	58,290.67	10,808.03	42,333.77
39,347.16						
4,053,599.28	51,433.03	221,266.02	33,466.92	75,904.75	15,303.03	56,333.77
11,405,471.25	118,353.96	354,335.27	79,969.20	123,909.28	43,586.07	79,862.34
6.6	4.4	8.1	4.16	2.6	1.0	2.4

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Markdale	Markham	Marmora	Martin- town 125	Maxville
Population.....	966	1,562	1,081	125	754
ASSETS	\$	\$	\$	\$	\$
Lands and buildings.....	780.80			126.15	
Substation equipment.....					407.79
Distribution system—overhead....	17,019.92	31,006.22	16,325.54	3,829.00	14,640.67
Distribution system—underground..					
Line transformers.....	11,140.54	18,640.56	7,393.32	1,843.77	5,677.25
Meters.....	8,383.33	11,861.49	5,683.66	1,522.42	4,514.17
Street light equipment, regular....	4,325.76	1,774.16	1,382.43	679.01	2,428.63
Street light equipment, ornamental..		1,542.45	275.30	36.94	429.08
Miscellaneous construction expense					
Steam or hydraulic plant.....					
Old plant.....					
Total plant.....	41,650.35	64,824.88	31,060.25	8,037.29	28,097.59
Bank and cash balance.....	3,781.69	6,176.97	2,442.44	3,043.18	654.19
Securities and investments.....	1,255.13	14,000.00	8,000.00	2,500.00	4,000.00
Accounts receivable.....	397.50	386.19	83.96	61.57	637.59
Inventories.....	69.77	1,691.10	1,273.90		
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	20,271.00	39,212.07	12,269.27	4,228.89	17,884.59
Other assets.....					
Frequency standardization expendi- ture in suspense.....					
Total assets.....	67,425.44	126,291.21	55,129.82	17,870.93	51,273.96
LIABILITIES					
Debenture balance.....					
Accounts payable.....	1,759.95	250.00	263.40	344.73	1,110.42
Bank overdraft.....					
Other liabilities.....	327.00	155.00	205.00	5.00	137.94
Total liabilities.....	2,086.95	405.00	468.40	349.73	1,248.36
RESERVES					
For equity in H-E.P.C. systems....	20,271.00	39,212.07	12,269.27	4,228.89	17,884.59
For depreciation.....	4,349.27	9,890.97	7,460.69	2,077.93	4,111.11
Other reserves.....				81.02	327.62
Total reserves.....	24,620.27	49,103.04	19,729.96	6,387.84	22,323.32
SURPLUS					
Debentures paid.....	6,370.29	11,373.63	15,091.58	5,346.73	13,642.40
Local sinking fund.....					
Operating surplus.....	34,347.93	65,409.54	19,839.88	5,786.63	14,059.88
Net frequency standardization ex- pense charged this year.....					
Total surplus.....	40,718.22	76,783.17	34,931.46	11,133.36	27,702.28
Total liabilities, reserves and surplus.	67,425.44	126,291.21	55,129.82	17,870.93	51,273.96
Percentage of net debt to total assets.	4.4	0.5	1.1	2.6	5.3

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

“A”—Continued

Utilities as at December 31, 1950

Meaford 3,114	Merlin 573	Merrickville 985	Merritton 4,572	Midland 7,260	Mildmay 838	Millbrook 772
\$ 1,144.18 4,093.47 47,731.18	\$ 17,702.93 11,493.44	\$ 15,967.95	\$ 51,888.45 84,995.94 70,409.23	\$ 20,061.07 131,380.78 119,585.31	\$ 9,533.65	\$ 10,918.66
22,794.84 22,358.45 4,441.54 4,160.17	4,519.72 4,074.89 1,123.54 260.70	6,210.70 4,302.47 578.00 584.53	32,844.19 27,748.46 8,784.34 4,837.91	43,727.13 56,690.37 21,804.41 11,688.64	11,959.10 4,838.04 966.97 936.78	4,809.63 3,738.53 1,972.11
106,723.83	39,175.22	27,643.65	281,508.52	404,937.71	29,083.54	21,438.93
28,094.90 25,000.00 763.80 183.28	3,597.40 47.17 286.25	24,992.51 3,601.00	31,275.24 57,000.00 656.90 1,603.29	2,159.60 166,000.00 35,742.64 20,750.13	4,703.90 6,500.00 18.26	4,000.00 0.29
65,833.85 749.39	20,504.92	432,118.11 99.69	414,994.82 4,226.55	9,373.35	4,250.20	
5.00						
227,349.05	63,615.96	56,237.16	804,261.75	1,046,651.85	47,134.75	34,393.32
94.72	1,160.66	25,000.00 25,221.86	296.17	1,157.89 31,884.24	2,014.85	
1,567.33	90.00	60.00	1,356.59	1,751.35	558.43	153.04
1,662.05	1,250.66	50,281.86	1,652.76	34,793.48	2,573.28	153.04
65,833.85 23,731.16 35.59	20,504.92 8,027.31 23.40	432,118.11 56,282.63 887.50	414,994.82 249,899.71 1,302.06	9,373.35 1,755.35	4,250.20 1,769.15	
89,600.60	28,555.63	4,014.54	488,400.74	666,196.59	11,128.70	6,019.34
47,724.76	13,122.36		32,186.21	111,944.99	10,288.65	9,000.00
88,361.64	*20,687.31	1,940.76	282,022.04	233,716.79	23,144.12	19,220.94
136,086.40	33,809.67	1,940.76	314,208.25	345,661.78	33,432.77	28,220.94
227,349.05	63,615.96	56,237.16	804,261.75	1,046,651.85	47,134.75	34,393.32
1.0	2.9	87.9	0.4	5.5	6.8	0.5

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Milton	Milverton	Mimico	Mitchell	Moorefield
Population	2,405	1,039	10,410	1,920	264
ASSETS	\$	\$	\$	\$	\$
Lands and buildings	17,085.21	761.88	105,355.35	26,187.04	.....
Substation equipment	58,905.76	.....	65,998.08	16,505.99	.....
Distribution system—overhead....	41,586.90	16,479.38	110,338.52	36,818.61	5,172.03
Distribution system—underground.	.....	.....	.....	.....	.....
Line transformers	25,010.34	14,833.62	65,710.85	23,946.76	3,003.69
Meters	21,217.44	8,315.92	47,653.52	19,201.66	2,131.14
Street light equipment, regular....	7,763.99	910.47	13,517.53	7,837.33	295.88
Street light equipment, ornamental	.....	.....	.....	.....	.....
Miscellaneous construction expense	4,409.53	987.99	6,791.65	5,632.29	70.03
Steam or hydraulic plant .....	.....	.....	.....	.....	.....
Old plant .....	.....	.....	.....	.....	.....
Total plant	175,979.17	42,289.26	415,365.50	136,129.68	10,672.77
Bank and cash balance	50.00	.....	10,745.41	100.00	2,904.28
Securities and investments .....	.....	4,000.00	.....	20,650.00	500.00
Accounts receivable	1,930.87	528.59	2,642.55	13,469.56	.....
Inventories	3,027.44	.....	1,343.72	11,110.28	.....
Sinking fund on local debentures..	.....	.....	.....	.....	.....
Equity in H-E.P.C. systems	186,064.46	74,981.42	273,584.77	86,541.96	11,866.10
Other assets	41.21	60.00	1,171.71	336.30	.....
Frequency standardization expendi- ture in suspense	1,930.28	.....	1,404.00	84.66	18.00
Total assets	369,023.43	121,859.27	706,257.66	268,422.44	25,961.15
LIABILITIES	.....	.....	.....	.....	.....
Debenture balance .....	.....	.....	.....	.....	.....
Accounts payable	441.92	19.29	33.25	1,028.20	.....
Bank overdraft	5,589.01	2,078.63	.....	4,155.55	.....
Other liabilities	524.56	.....	6,887.00	279.00	10.22
Total liabilities	6,555.49	2,097.92	6,920.25	5,462.75	10.22
RESERVES	.....	.....	.....	.....	.....
For equity in H-E.P.C. systems ..	186,064.46	74,981.42	273,584.77	86,541.96	11,866.10
For depreciation	41,474.15	9,417.65	121,588.40	48,879.40	3,569.90
Other reserves	140.33	.....	441.15	1,352.49	.....
Total reserves	227,678.94	84,399.07	395,614.32	136,773.85	15,436.00
SURPLUS	.....	.....	.....	.....	.....
Debentures paid	33,046.41	9,500.00	127,000.00	22,295.22	4,500.00
Local sinking fund .....	.....	.....	.....	.....	.....
Operating surplus	*101,742.59	25,862.28	*176,723.09	*103,890.62	*6,014.93
Net frequency standardization ex- pense charged this year .....	.....	.....	.....	.....	.....
Total surplus	134,789.00	35,362.28	303,723.09	126,185.84	10,514.93
Total liabilities, reserves and surplus.	369,023.43	121,859.27	706,257.66	268,422.44	25,961.15
Percentage of net debt to total assets.	3.6	4.5	1.6	3.0	0.1

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

"A"—Continued

Utilities as of December 31, 1950

Morrisburg 1,913	Mount Brydges 633	Mount Forest 2,168	Napanee 3,769	Neustadt 457	Newboro 276	Newburgh 486
\$	\$	\$	\$	\$	\$	\$
5,682.38		3,726.00	24,051.33			
4,499.48		686.75	2,358.27			
17,973.39	11,579.15	27,720.32	66,679.95	12,174.86	11,370.34	16,015.56
11,842.60	7,520.09	13,986.26	25,600.72	7,277.75	3,031.04	4,696.69
11,870.64	4,035.70	14,912.48	27,521.00	3,417.99	2,365.61	3,653.35
7,086.85	1,501.20	5,155.85	6,480.12	1,900.76	1,003.39	954.77
632.80		615.58	9,042.63	426.79	1,347.97	114.45
59,588.14	24,636.14	66,803.24	161,734.02	25,198.15	19,118.35	25,434.82
8,524.44	812.29	10,315.43		3,591.12	2,407.10	2,140.51
16,000.00	10,500.00	20,000.00	12,800.00	12,700.00		
4,754.86	301.18	286.84	28,211.38	51.94	29.08	63.26
256.86			13,046.50			
10,633.03	14,380.79	65,897.13	92,541.77	10,969.47	170.90	83.34
		68.34	121.11			
136.61						
99,757.33	50,767.01	163,370.98	308,454.78	52,510.68	21,725.43	27,721.93
1,488.85	100.54	77.92	652.87		16,367.33	9,500.00
			8,411.39		42.25	4,716.64
2,181.40	150.10	160.00	1,812.25	368.85	104.00	69.00
3,670.25	250.64	237.92	10,876.51	368.85	16,513.58	14,285.64
10,633.03	14,380.79	65,897.13	92,541.77	10,969.47	170.90	83.34
3,972.91	7,490.83	25,495.16	26,060.54	10,473.06	712.89	11,212.51
97.38						
14,605.94	21,969.00	91,392.29	118,602.31	21,442.53	883.79	11,295.85
31,636.00	4,220.00	25,351.63	70,000.00	15,504.12	632.67	500.00
49,845.14	*24,327.37	46,389.14	108,975.96	15,195.18	3,695.39	1,640.44
81,481.14	28,547.37	71,740.77	178,975.96	30,699.30	4,328.06	2,140.44
99,757.33	50,767.01	163,370.98	308,454.78	52,510.68	21,725.43	27,721.93
4.1	0.7	0.2	5.0	0.9	76.6	51.7

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Newbury	Newcastle	New Hamburg	Newmarket
Population	284	851	1,704	5,036
ASSETS	\$	\$	\$	\$
Lands and buildings		107.37	4,203.21	4,000.00
Substation equipment.....			1,319.80	5,000.00
Distribution system—overhead.....	7,837.15	18,895.21	26,565.00	80,947.31
Distribution system—underground.....				
Line transformers.....	2,966.14	9,351.94	19,856.74	52,941.21
Meters.....	2,055.12	6,104.04	14,232.59	36,729.97
Street light equipment, regular.....	894.16	2,176.10	2,375.06	15,758.53
Street light equipment, ornamental.....				
Miscellaneous construction expense.....		597.00	1,937.86	6,075.10
Steam or hydraulic plant.....				
Old plant.....				
Total plant.....	13,752.57	37,231.66	70,490.26	201,452.12
Bank and cash balance.....	1,936.09	4,654.91	682.26	15,002.26
Securities and investments.....	6,500.00	9,000.00	9,000.00	
Accounts receivable.....	750.95	589.49	1,247.36	2,357.60
Inventories.....			1,438.66	170.91
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....	8,107.43	8,173.18	90,624.26	25,929.26
Other assets.....			3.10	215.31
Frequency standardization expenditure in suspense.....	12.00		10.00	26,132.32
Total assets.....	31,059.04	59,649.24	173,495.90	271,259.78
LIABILITIES				
Debenture balance.....				60,000.00
Accounts payable.....	176.99		44.52	1,543.33
Bank overdraft.....				
Other liabilities.....	57.84		169.34	1,433.42
Total liabilities.....	234.83		213.86	62,976.75
RESERVES				
For equity in H-E.P.C. systems.....	8,107.43	8,173.18	90,624.26	25,929.26
For depreciation.....	7,233.91	12,680.48	20,406.06	50,395.14
Other reserves.....			33.83	275.00
Total reserves.....	15,341.34	20,853.66	111,064.15	76,599.40
SURPLUS				
Debentures paid.....	9,754.39	14,000.00	17,729.08	5,000.00
Local sinking fund.....				
Operating surplus.....	*5,728.48	24,795.58	*44,488.81	*126,683.63
Net frequency standardization expense charged this year.....				
Total surplus.....	15,482.87	38,795.58	62,217.89	131,683.63
Total liabilities, reserves and surplus.....	31,059.04	59,649.24	173,495.90	271,259.78
Percentage of net debt to total assets.....	1.8	0.0	0.3	28.7

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

“A”—Continued

Utilities as at December 31, 1950

New Toronto 10,961	Niagara 1,939	Niagara Falls 21,737	North York Twp. (V.A.)	Norwich 1,361	Norwood 911	Oakville 6,371
\$	\$	\$	\$	\$	\$	\$
64,584.39	4,463.20	134,051.90	103,261.18	4,697.92	750.00	5,550.38
125,830.82	24,212.17	293,913.96	293,612.63	457.53	5,550.38	105,628.71
17,198.72	53,094.19	294,762.27	1,550,634.45	13,590.87	27,048.25	58,834.78
89,900.46	30,067.84	17,248.90	786,487.81	12,522.50	7,842.07	54,093.28
56,298.90	20,007.65	235,628.20	441,857.18	11,434.53	8,685.70	12,677.69
17,923.44	5,109.12	156,697.55	156.00	4,745.69	2,141.72	6,623.69
8,696.66	3,446.96	44,511.01	87,647.71	3,091.87	4,967.58	2,447.51
380,433.39	140,401.13	1,335,687.90	3,263,656.96	50,083.38	53,590.36	244,158.53
21,425.79	3,502.19	13,672.76	200,453.56	25.00	8,057.20	11,079.71
120,000.00	5,000.00	185,000.00	10,000.00	12,300.00	20,500.00	22,141.42
6,053.59	6,111.71	2,673.29	183,867.63	1,880.15	2,053.41	15,390.55
9,064.88	8,999.32	33,818.01	107,013.11	4,580.58	.....	6,134.12
934,615.75	64,183.34	1,023,865.70	496,147.82	66,250.07	13,083.42	66.64
.....	.....	347.52	23.99	720.21	.....	.....
54.09	.....	.....	381.55	.....	.....	.....
1,471,647.49	228,197.69	2,595,065.18	4,261,544.62	135,839.39	97,284.39	298,970.97
.....	4,800.00	.....	1,848,148.52	.....	.....	.....
1,463.85	52.03	15,283.82	334,136.21	230.47	664.12	41,728.25
.....	.....	.....	.....	216.04	.....	.....
6,777.37	839.65	25,935.55	41,981.96	460.33	515.07	3,320.00
8,241.22	5,691.68	41,219.37	2,224,266.69	906.84	1,179.19	45,048.25
934,615.75	64,183.34	1,023,865.70	496,147.82	66,250.07	13,083.42	6,134.12
107,245.59	33,659.54	410,791.16	392,808.56	13,407.97	20,248.59	125,502.63
340.73	598.73	1,380.86	19,396.80	479.69	.....	568.61
1,042,202.07	98,441.61	1,436,037.72	908,353.18	80,137.73	33,332.01	132,205.36
8,000.00	43,701.42	690,243.00	579,873.35	13,756.00	33,517.70	.....
*413,204.20	80,362.98	427,565.09	*549,051.40	41,038.82	29,255.49	121,717.36
421,204.20	124,064.40	1,117,808.09	1,128,924.75	54,794.82	62,773.19	121,717.36
1,471,647.49	228,197.69	2,595,065.18	4,261,544.62	135,839.39	97,284.39	298,970.97
1.5	3.5	2.6	59.1	1.3	1.4	15.4

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Oil Springs	Omemeë	Orange- ville	Orono	Oshawa
Population.....	420	713	3,273	561	29,771
ASSETS	\$	\$	\$	\$	\$
Lands and buildings.....	6,457.31	200.00	2,585.07		149,212.91
Substation equipment.....	2,461.78				286,189.44
Distribution system—overhead....	16,798.00	21,246.51	46,495.21	10,344.01	431,449.43
Distribution system—underground..					189,989.74
Line transformers.....	9,614.54	9,808.19	23,752.02	7,391.37	188,052.06
Meters.....	4,794.02	4,863.99	20,202.22	4,057.89	192,441.98
Street light equipment, regular....	836.10	2,831.81	19,951.70	1,505.45	112,685.40
Street light equipment, ornamental					
Miscellaneous construction expense	204.73	260.00	1,360.87	420.78	45,761.86
Steam or hydraulic plant.....					
Old plant.....					
Total plant.....	41,166.48	39,210.50	114,347.09	23,719.50	1,595,782.82
Bank and cash balance.....	10,640.39	3,070.75	14,337.96	4,345.48	23,085.50
Securities and investments.....	6,500.00	8,000.00	40,800.00	8,000.00	185,000.00
Accounts receivable.....	122.86	183.61	1,319.10	115.41	137,437.52
Inventories.....	360.36		304.72		71,838.09
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	42,168.91	6,161.02	89,333.71	3,985.75	1,183,671.21
Other assets.....					1,008.32
Frequency standardization expendi- ture in suspense.....	179.35				
Total assets.....	101,138.35	56,625.88	260,442.58	40,166.14	3,197,823.46
LIABILITIES					
Debenture balance.....					
Accounts payable.....	22.95	282.43		33.60	92,648.27
Bank overdraft.....					
Other liabilities.....	30.00	172.00	973.00		32,875.86
Total liabilities.....	52.95	454.43	973.00	33.60	125,524.13
RESERVES					
For equity in H-E.P.C. systems....	42,168.91	6,161.02	89,333.71	3,985.75	1,183,671.21
For depreciation.....	17,004.86	14,030.43	35,222.11	2,073.76	166,532.55
Other reserves.....	85.23				76,403.97
Total reserves.....	59,259.00	20,191.45	124,555.82	6,059.51	1,426,607.73
SURPLUS					
Debentures paid.....	16,721.31	10,595.00	25,594.32	8,000.00	302,622.40
Local sinking fund.....					
Operating surplus.....	*25,105.09	25,385.00	109,319.44	26,073.03	1,343,069.20
Net frequency standardization ex- pense charged this year.....					
Total surplus.....	41,826.40	35,980.00	134,913.76	34,073.03	1,645,691.60
Total liabilities, reserves and surplus.	101,138.35	56,625.88	260,442.58	40,166.14	3,197,823.46
Percentage of net debt to total assets.	0.1	0.9	0.6	0.1	6.2

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

"A"—Continued

Utilities as at December 31, 1950

Ottawa	Otterville	Owen Sound	Paisley	Palmerston	Paris	Parkhill
193,319	588	16,428	731	1,557	5,134	970
\$	\$	\$	\$	\$	\$	\$
2,052,194.09	639.25	56,639.92			13,570.15	
3,461,806.26		96,983.79	1,923.46	1,346.28	72,599.62	
2,693,735.51	11,850.22	217,649.68	17,861.83	38,679.60	76,116.24	27,611.28
784,108.23		4,839.08				
1,568,097.85	8,580.91	96,923.50	7,938.90	19,850.44	49,421.92	14,467.25
1,022,275.19	4,441.25	105,812.16	5,645.81	13,946.06	27,939.82	7,642.86
241,592.87	1,903.49	47,203.11	1,155.73	10,553.17	18,507.53	9,125.80
90,229.22	596.75	12,868.80	168.84	2,125.00	4,352.16	707.66
1,731,500.00						
10,000.00						
13,655,539.22	28,011.87	638,920.04	34,694.57	86,500.55	262,507.44	59,554.85
74,723.30	900.22	22,449.56	8,029.37	10,771.41	4,502.20	15,252.71
363,000.00	6,500.00	77,500.00	4,500.00	15,600.00		
427,259.99	186.99	31,146.67	123.24	239.18	604.79	438.76
412,005.53	351.00	37,481.33	67.00	6,779.49	148.00	
246,700.77						
669,303.28	16,833.17	462,109.72	21,127.63	81,496.52	210,654.85	36,907.30
4,408.76					27.00	
					1,300.00	
15,852,940.85	52,783.25	1,269,607.32	68,541.81	201,387.15	479,744.28	112,153.62
6,769,570.29		100,000.00				15,000.00
352,003.34	191.63	71,016.18		199.94	445.71	48.64
	101.38	13,127.83	57.42	381.42		418.33
7,121,573.63	293.01	184,144.01	57.42	581.36	445.71	15,466.97
669,303.28	16,833.17	462,109.72	21,127.63	81,496.52	210,654.85	36,907.30
3,057,022.62	10,148.65	125,701.67	8,992.59	27,125.67	84,958.99	10,188.18
155,127.55		2,697.80		299.38	68.81	
3,881,453.45	26,981.82	590,509.19	30,120.22	108,921.57	295,682.65	47,095.48
1,210,429.71	4,500.00	107,718.00	13,623.35	27,000.00	92,000.00	14,630.02
246,700.77						
3,392,783.29	21,008.42	387,236.12	24,740.82	64,884.22	*91,615.92	34,961.15
4,849,913.77	25,508.42	494,954.12	38,364.17	91,884.22	183,615.92	49,591.17
15,852,940.85	52,783.25	1,269,607.32	68,541.81	201,387.15	479,744.28	112,153.62
46.9	0.8	22.8	0.1	0.5	0.2	20.6

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Parry Sound	Penetang- uishene	Perth	Peter- borough
Population	5,148	4,793	4,786	36,716
ASSETS	\$	\$	\$	\$
Lands and buildings		2,288.05	5,109.34	170,665.13
Substation equipment	22,043.00	7,161.13	17,288.93	303,184.50
Distribution system—overhead	59,376.05	66,275.03	70,413.20	690,969.10
Distribution system—underground				
Line transformers	26,287.64	32,224.45	46,780.65	313,196.94
Meters	34,580.49	27,196.43	32,597.68	223,379.66
Street light equipment, regular	19,455.86	12,997.09	24,215.31	128,223.05
Street light equipment, ornamental				
Miscellaneous construction expense	5,655.24	2,158.07	10,593.27	44,179.68
Steam or hydraulic plant	363,765.96			
Old plant				
Total plant	531,164.24	150,300.25	206,998.38	1,873,798.06
Bank and cash balance		4,948.97	5,304.53	58,967.69
Securities and investments	37,800.00	55,000.00	71,000.00	
Accounts receivable	2,211.56	1,633.43	7,187.66	73,062.22
Inventories		383.66	22,732.85	43,427.91
Sinking fund on local debentures				
Equity in H-E.P.C. systems	1,961.39	119,765.64	140,912.63	756,920.09
Other assets		300.00		1,186.72
Frequency standardization expenditure in suspense				
Total assets	573,137.19	332,331.95	454,136.05	2,807,362.69
LIABILITIES				
Debenture balance	3,329.87		4,071.09	156,000.00
Accounts payable	219.67			58,767.21
Bank overdraft	5,566.55			
Other liabilities	7,209.16	1,097.50	3,614.69	896.06
Total liabilities	16,325.25	1,097.50	7,685.78	215,663.27
RESERVES				
For equity in H-E.P.C. systems	1,961.39	119,765.64	140,912.63	756,920.09
For depreciation	111,868.37	59,187.37	72,869.08	400,541.37
Other reserves	68.66	891.36	5,885.24	1,279.79
Total reserves	113,898.42	179,844.37	219,666.95	1,158,741.25
SURPLUS				
Debentures paid	385,170.13	36,982.95	80,974.21	494,610.67
Local sinking fund				
Operating surplus	57,743.39	114,407.13	145,809.11	938,347.50
Net frequency standardization expense charged this year				
Total surplus	442,913.52	151,390.08	226,783.32	1,432,958.17
Total liabilities, reserves and surplus	573,137.19	332,331.95	454,136.05	2,807,362.69
Percentage of net debt to total assets	2.9	0.5	2.5	10.5

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

"A"—Continued

Utilities as at December 31, 1950

Petrolia 3,006	Picton 4,217	Plattsville 402	Point Edward 1,687	Port Colborne 8,008	Port Credit 3,342	Port Dalhousie 2,368
\$	\$	\$	\$	\$	\$	\$
38,728.87	14,721.20			30,501.60	675.00	6,000.00
5,971.75	52,496.30					
69,534.65	60,308.84	8,626.62	41,625.11	106,041.63	75,277.52	43,847.64
43,746.24	31,425.42	6,332.98	13,015.34	48,985.69	37,805.22	27,611.35
21,589.01	32,292.42	3,351.53	10,571.21	38,722.79	23,732.80	19,334.15
7,341.90	11,310.29	171.79	7,417.08	6,412.44	6,401.74	2,449.43
9,222.12	1,569.27		3,529.17	8,517.39	4,709.25	2,931.78
				†16,160.00		
196,134.54	204,123.74	18,482.92	76,157.91	255,341.54	148,601.53	102,174.35
50.00	12,573.84	817.49	993.46	1,369.40	19,634.81	6,822.01
15,000.00	3,500.00	4,500.00	13,000.00	105,000.00	1,000.00	
4,570.79	1,051.60	56.27	4,895.19	112.31	3,284.49	2,668.37
12,909.47	10,250.56		4,305.93	3,778.42	3,104.35	798.00
182,782.41	114,226.85	18,722.09	135,336.00	191,059.14	83,583.27	76,074.71
188.00				250.45		1,143.32
3,314.92			10,837.86		129.40	
414,950.13	345,726.59	42,578.77	245,526.35	556,911.26	259,337.85	189,680.76
					38,247.35	15,550.90
8.06	7,051.73	151.48	13,402.02	10,097.00	7,616.41	1,715.70
1,956.46						
1,392.56	5,698.73		562.40	4,538.74	1,256.40	1,691.78
3,357.08	12,750.46	151.48	13,964.42	14,635.74	47,120.16	18,958.38
182,782.41	114,226.85	18,722.09	135,336.00	191,059.14	83,583.27	76,074.71
60,018.86	40,963.66	1,446.59	20,660.29	66,325.24	30,838.62	11,710.80
92.34	968.91		58.64	229.88	369.59	214.16
242,893.61	156,159.42	20,168.68	156,054.93	257,614.26	114,791.48	87,999.67
50,000.00	3,182.32	5,237.00	17,000.00	146,000.00	16,252.65	23,949.10
*118,699.44	173,634.39	17,021.61	*58,507.00	138,661.26	*81,173.56	58,773.61
168,699.44	176,816.71	22,258.61	75,507.00	284,661.26	97,426.21	82,722.71
414,950.13	345,726.59	42,578.77	245,526.35	556,911.26	259,337.85	189,680.76
1.45	5.5	0.6	12.7	4.0	26.8	16.7

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

†Annexation not distributed.

STATEMENT

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Port Dover	Port Elgin	Port Hope	Port McNicoll	Port Perry
Population.....	2,442	1,541	6,131	897	1,600
ASSETS	\$	\$	\$	\$	\$
Lands and buildings.....	248.75	1,311.25	18,480.06		
Substation equipment.....			26,970.30		2,564.65
Distribution system—overhead....	55,801.08	37,621.02	92,020.98	18,628.44	33,897.13
Distribution system—underground..					
Line transformers.....	31,008.46	17,715.57	53,285.48	4,433.78	11,128.41
Meters.....	21,034.04	14,659.00	53,975.18	5,488.56	8,974.36
Street light equipment, regular....	3,851.55	3,347.92	10,500.97	730.00	2,001.43
Street light equipment, ornamental					
Miscellaneous construction expense	1,428.74	2,255.99	6,167.58	205.37	162.40
Steam or hydraulic plant.....					
Old plant.....					
Total plant.....	113,372.62	76,910.75	261,400.55	29,486.15	58,728.38
Bank and cash balance.....	114.15	6,935.78	1,821.69		2,014.30
Securities and investments.....		4,500.00		1,000.00	16,000.00
Accounts receivable.....	4,383.40	924.95	1,101.85	401.89	364.11
Inventories.....			10,962.42	308.22	
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	54,030.32	33,483.72	145,179.43	11,901.69	35,950.69
Other assets.....	122.50				2,652.80
Frequency standardization expendi- ture in suspense.....	151.00				
Total assets.....	172,173.99	122,755.20	420,465.94	43,097.95	115,710.28
LIABILITIES					
Debenture balance.....				2,600.00	
Accounts payable.....	496.92	3,427.00	233.48	159.50	980.30
Bank overdraft.....				864.14	
Other liabilities.....	897.30		13,563.77	288.40	622.00
Total liabilities.....	1,394.22	3,427.00	13,797.25	3,912.04	1,602.30
RESERVES					
For equity in H-E.P.C. systems....	54,030.32	33,483.72	145,179.43	11,901.69	35,950.69
For depreciation.....	31,300.34	12,847.84	53,369.12	3,985.32	5,351.82
Other reserves.....					
Total reserves.....	85,330.66	46,331.56	198,548.55	15,887.01	41,302.51
SURPLUS					
Debentures paid.....	29,000.00	37,787.00	78,630.64	7,203.58	19,881.66
Local sinking fund.....					
Operating surplus.....	*56,449.11	35,209.64	129,489.50	16,095.32	52,923.81
Net frequency standardization ex- pense charged this year.....					
Total surplus.....	85,449.11	72,996.64	208,120.14	23,298.90	72,805.47
Total liabilities, reserves and surplus.	172,173.99	122,755.20	420,465.94	43,097.95	115,710.28
Percentage of net debt to total assets.	1.2	3.8	5.0	12.5	2.1

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

“A”—Continued

Utilities as of December 31, 1950

Port Rowan 803	Port Stanley 1,196	Prescott 3,357	Preston 7,368	Priceville 181	Princeton 321	Queenston 287
\$	\$	\$	\$	\$	\$	\$
17,001.93	1,574.60	2,761.54	64,017.74	68.00		
7,185.09	48,343.11	62,941.24	106,499.10	10,181.58	5,300.05	11,439.69
4,600.27	26,916.40	30,299.74	85,078.13	2,706.93	4,872.16	4,509.75
1,243.62	19,631.78	26,345.83	53,392.79	959.86	2,523.87	2,719.95
111.24	3,401.41	8,540.43	8,619.72	854.96	525.42	498.05
	749.79	7,972.26	6,701.80			85.54
30,142.15	100,617.09	138,861.04	324,309.28	14,771.33	13,221.50	19,252.98
1,745.95	50.00	8,189.91	125.00	661.09	4,236.20	914.40
266.33	13,000.00				7,000.00	6,500.00
	1,456.26	1,261.25	6,066.53	15.64	77.68	330.04
	237.50		16,700.66			
13,993.53	79,714.06	101,458.75	474,537.63	1,833.36	18,903.44	13,010.30
48.00			21,309.69			
	10.00		1,165.00		12.00	
46,195.96	195,084.91	249,770.95	844,213.79	17,281.42	43,450.82	40,007.72
2,752.80		12,000.00		5,850.00		
	2,148.94	87.79	8,916.04	89.04	147.06	690.50
300.00	1,499.87		8,552.86			
	293.00	698.40	2,393.24			75.00
3,052.80	3,941.81	12,786.19	19,862.14	5,939.04	147.06	765.50
13,993.53	79,714.06	101,458.75	474,537.63	1,833.36	18,903.44	13,010.30
5,299.88	25,411.17	55,649.83	155,189.19	1,492.34	4,507.28	4,618.39
	40.16		339.76			
19,293.41	105,165.39	157,108.58	630,066.58	3,325.70	23,410.72	17,628.69
11,000.00	18,950.00	12,170.99	152,800.00	6,316.10	3,550.00	9,500.00
12,849.75	*67,027.71	67,705.19	*41,485.07	1,700.58	*16,343.04	12,113.53
23,849.75	85,977.71	79,876.18	194,285.07	8,016.68	19,893.04	21,613.53
46,195.96	195,084.91	249,770.95	844,213.79	17,281.42	43,450.82	40,007.72
9.5	3.4	8.6	5.4	38.4	0.6	2.8

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Renfrew	Richmond	Richmond Hill	Ridgetown	Ripley
Population.....	7,069	556	2,123	2,211	450
ASSETS	\$	\$	\$	\$	\$
Lands and buildings.....	9,393.89			4,487.88	
Substation equipment.....	34,619.88		600.00	1,024.24	
Distribution system—overhead....	73,136.60	8,453.82	26,339.68	38,995.06	12,254.47
Distribution system—underground..					
Line transformers.....	55,440.89	4,587.78	25,509.97	18,158.38	6,508.87
Meters.....	44,848.30	2,871.00	11,210.60	14,843.99	3,704.43
Street light equipment, regular....	35,694.80	287.45	3,422.31	7,971.62	983.43
Street light equipment, ornamental					
Miscellaneous construction expense	7,056.02	35.40		1,439.78	
Steam or hydraulic plant.....	496,732.50				
Old plant.....					
Total plant.....	756,922.88	16,235.45	67,082.56	86,920.95	23,451.20
Bank and cash balance.....	354.18	568.33	890.02	4,725.04	4,162.99
Securities and investments.....			5,500.00	4,000.00	
Accounts receivable.....	20,766.78	407.54	1,327.63	270.37	96.23
Inventories.....	6,648.83			512.63	
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	9,451.57	7,463.14	43,385.97	79,140.47	15,943.46
Other assets.....	6,042.29				
Frequency standardization expendi- ture in suspense.....			5,214.03	121.36	
Total assets.....	800,186.53	24,674.46	123,400.21	175,690.82	43,653.88
LIABILITIES					
Debenture balance.....	36,124.31				
Accounts payable.....	7,898.11	2,450.99	6,816.62	6,149.24	280.00
Bank overdraft.....					
Other liabilities.....		137.87	1,080.74	922.50	164.83
Total liabilities.....	44,022.42	2,588.86	7,897.36	7,071.74	444.83
RESERVES					
For equity in H-E.P.C. systems....	9,451.57	7,463.14	43,385.97	79,140.47	15,943.46
For depreciation.....	119,942.07	3,617.84	6,533.48	17,825.45	5,857.12
Other reserves.....	3,270.67		169.37	213.45	
Total reserves.....	132,664.31	11,080.98	50,088.82	97,179.37	21,800.58
SURPLUS					
Debentures paid.....	475,112.42	5,887.33	12,200.00	19,455.99	12,744.49
Local sinking fund.....					
Operating surplus.....	148,387.38	5,117.29	*53,214.03	*51,983.72	8,663.98
Net frequency standardization ex- pense charged this year.....					
Total surplus.....	623,499.80	11,004.62	65,414.03	71,439.71	21,408.47
Total liabilities, reserves and surplus.	800,186.53	24,674.46	123,400.21	175,690.82	43,653.88
Percentage of net debt to total assets.	5.6	15.0	10.6	7.3	1.6

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

“A”—Continued

Utilities as at December 31, 1950

Riverside 8,600	Rockwood 653	Rodney 885	Rosseau 185	Russell 480	St. Catharines 37,543	St. Clair Beach 425
\$	\$	\$	\$	\$	\$	\$
12,861.37	79.00				31,162.35	
7,859.98					313,898.32	
133,313.00	11,600.96	13,831.60	8,489.07	14,296.18	461,345.69	13,953.87
48,086.98	4,402.85	6,711.67	2,590.16	3,680.56	338,407.95	5,468.31
53,579.95	5,168.70	6,959.87	1,349.42	2,878.79	248,052.04	3,999.75
	1,027.82	3,651.31	623.60	1,344.70	34,287.14	1,485.48
19,504.64	346.69	35.27	1,067.16	43.58	17,360.40	6.00
275,205.92	22,626.02	31,189.72	14,119.41	22,243.81	1,444,513.89	24,913.41
100.00	4,093.63	3,688.29	1,864.86	2,717.40	175.00	
	3,300.00	8,200.00	2,500.00	1,000.00	343,000.00	3,000.00
9,013.16	2.30	186.49	147.01	1,110.98	88,746.29	356.09
10,629.56	88.83				44,492.65	
158,051.93	20,626.80	25,483.00	7,858.02	11,178.06	1,431,242.33	13,225.24
	13.34				698.97	
		10.00			7,565.61	
453,000.57	50,750.92	68,757.50	26,489.30	38,250.25	3,360,434.74	41,494.74
25,803.86	191.05		3,029.59		1,750.00	
3,042.71	126.94	371.50	1,050.00	421.98	103,674.69	58.00
2,294.92	193.72	355.00	20.00	10.00	105,000.97	160.29
					23,752.00	115.00
31,141.49	511.71	726.50	4,099.59	431.98	234,177.66	333.29
158,051.93	20,626.80	25,483.00	7,858.02	11,178.06	1,431,242.33	13,225.24
65,943.07	10,360.46	9,518.83	4,262.08	1,194.56	392,524.79	8,128.75
135.37		73.15	68.74		3,178.86	34.74
224,130.37	30,987.26	35,074.98	12,188.84	12,372.62	1,826,945.98	21,388.73
82,500.00	4,308.95	8,500.00	9,970.41	8,808.12	300,272.91	6,341.45
115,228.71	14,943.00	*24,456.02	230.46	16,637.53	*999,038.19	13,431.27
197,728.71	19,251.95	32,956.02	10,200.87	25,445.65	1,299,311.10	19,772.72
453,000.57	50,750.92	68,757.50	26,489.30	38,250.25	3,360,434.74	41,494.74
10.6	1.7	1.7	22.0	1.6	12.1	1.2

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	St. George	St. Jacobs	St. Marys	St. Thomas
Population.....	611	724	3,912	19,807
ASSETS	\$	\$	\$	\$
Lands and buildings.....			20,021.84	79,643.04
Substation equipment.....			34,468.45	171,432.85
Distribution system—overhead.....	7,466.79	9,777.67	89,142.34	168,108.30
Distribution system—underground.....				101,979.88
Line transformers.....	8,050.69	8,200.61	51,299.54	110,974.76
Meters.....	4,982.67	5,409.80	34,641.31	96,174.69
Street light equipment, regular.....	2,517.13	493.20	8,155.78	33,812.78
Street light equipment, ornamental.....				
Miscellaneous construction expense.....		61.25	24,797.59	8,415.61
Steam or hydraulic plant.....				
Old plant.....				
Total plant.....	23,017.28	23,942.53	262,526.85	770,541.91
Bank and cash balance.....	5,160.88	3,924.53	25.00	14,881.96
Securities and investments.....	6,000.00	10,000.00		80,000.00
Accounts receivable.....	859.69	37.00	2,086.16	26,962.54
Inventories.....			8,993.31	25,553.82
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....	25,923.42	32,293.88	239,503.85	916,166.18
Other assets.....		10.00	323.85	3,739.32
Frequency standardization expenditure in suspense.....			1,596.16	480.00
Total assets.....	60,961.27	70,207.94	515,055.18	1,838,325.73
LIABILITIES				
Debenture balance.....			40,421.91	
Accounts payable.....	104.38	23.32	87.88	0.34
Bank overdraft.....			409.89	
Other liabilities.....	180.00		1,674.00	20,617.39
Total liabilities.....	284.38	23.32	42,593.68	20,617.73
RESERVES				
For equity in H-E.P.C. systems.....	25,923.42	32,293.88	239,503.85	916,166.18
For depreciation.....	721.51	6,081.12	83,168.90	284,289.76
Other reserves.....			701.02	349.06
Total reserves.....	26,644.93	38,375.00	323,373.77	1,200,805.00
SURPLUS				
Debentures paid.....	6,000.00	6,000.00	113,838.47	138,944.07
Local sinking fund.....				
Operating surplus.....	28,031.96	25,809.62	*35,249.26	*477,958.93
Net frequency standardization expense charged this year.....				
Total surplus.....	34,031.96	31,809.62	149,087.73	616,903.00
Total liabilities, reserves and surplus...	60,961.27	70,207.94	515,055.18	1,838,325.73
Percentage of net debt to total assets...	0.8	0.1	15.5	2.2

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

"A"—Continued

Utilities as at December 31, 1950

Sarnia 23,550	Scarborough Twp. (V.A.)	Seaforth 2,072	Shelburne 1,257	Simcoe 7,078	Smiths Falls 8,358
\$	\$	\$	\$	\$	\$
150,770.47	31,649.07	1,836.39	800.00	11,686.59	93,216.96
255,116.60	53,871.51	8,930.07	566.60	66,506.30	9,782.31
307,900.34	775,076.75	42,720.92	24,216.12	88,983.24	122,962.87
227,969.00				1,412.24	
161,824.71	350,171.45	23,794.45	17,548.45	76,023.89	63,544.59
163,750.23	250,932.90	15,994.87	11,665.83	54,477.02	54,605.12
38,002.98	54,744.20	6,564.34	8,737.78	24,988.58	27,297.72
105,241.21	41,001.55	2,453.20	289.03	10,586.77	8,580.94
1,410,575.54	1,557,447.43	102,294.24	63,823.81	334,664.63	379,990.51
36,390.01	65,504.09	20.00	4,399.76	30.00	745.21
15,000.00		9,000.00	7,500.00	27,500.00	17,040.00
54,882.64	31,651.96	8,417.13	181.55	5,695.53	351.68
66,560.00		942.34		21,855.00	6,520.06
1,178,166.08	415,284.26	113,943.42	36,204.17	224,248.94	211,177.96
20,437.75	501.84	115.69		671.34	
59,899.78	30,516.14			2,079.00	
2,841,911.80	2,100,905.72	234,732.82	112,109.29	616,744.44	615,825.42
392,000.00	493,000.00	5,308.95		917.06	
9,442.00	74,393.78	428.03	293.08	10,669.90	2,489.79
		7,798.65		3,905.06	
18,090.74	166,494.57	733.78	81.00	2,922.14	421.19
419,532.74	733,888.35	14,269.41	374.08	18,414.16	2,910.98
1,178,166.08	415,284.26	113,943.42	36,204.17	224,248.94	211,177.96
288,793.35	216,853.71	20,620.88	23,268.34	76,241.01	103,591.37
14,123.89	2,157.22	221.31			187.83
1,481,083.32	634,295.19	134,785.61	59,472.51	300,489.95	314,957.16
346,000.00	297,568.27	29,691.05	16,991.04	74,517.84	122,787.33
*624,122.54	*521,203.69	55,986.75	35,271.66	*223,322.49	175,169.95
28,826.80	86,049.78				
941,295.74	732,722.18	85,677.80	52,262.70	297,840.33	297,957.28
2,841,911.80	2,100,905.72	234,732.82	112,109.29	616,744.44	615,825.42
25.2	44.3	11.8	0.5	4.7	0.7

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Smithville	Southamp- ton	Springfield	Stamford Twp.
Population.....	631	1,724	494	15,633
ASSETS	\$	\$	\$	\$
Lands and buildings.....		25.00		33,702.26
Substation equipment.....				81,053.02
Distribution system—overhead.....	14,579.84	39,282.54	14,407.26	298,775.07
Distribution system—underground.....				
Line transformers.....	6,343.22	17,666.19	6,447.45	146,573.42
Meters.....	6,032.98	15,365.57	3,224.82	102,461.58
Street light equipment, regular.....	1,731.00	7,201.30	748.54	22,041.59
Street light equipment, ornamental.....				
Miscellaneous construction expense.....	2,547.50	1,092.53	213.90	24,097.94
Steam or hydraulic plant.....				
Old plant.....				
Total plant.....	31,234.54	80,633.13	25,041.97	708,704.88
Bank and cash balance.....	3,818.79	4,186.98	1,613.56	2,378.06
Securities and investments.....	12,500.00	5,500.00	1,500.00	6,000.00
Accounts receivable.....	41.33	394.28	119.93	41,483.67
Inventories.....	748.92		653.36	32,294.43
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....	7,273.16	32,055.07	16,137.67	197,526.15
Other assets.....				1,468.16
Frequency standardization expendi- ture in suspense.....			36.76	1,975.00
Total assets.....	55,616.74	122,769.46	45,103.25	991,830.35
LIABILITIES				
Debenture balance.....				184,497.00
Accounts payable.....	378.15		118.28	1,960.72
Bank overdraft.....				33,066.11
Other liabilities.....	40.00	54.17	15.00	8,238.06
Total liabilities.....	418.15	54.17	133.28	227,761.89
RESERVES				
For equity in H-E.P.C. systems.....	7,273.16	32,055.07	16,137.67	197,526.15
For depreciation.....	7,680.67	11,450.92	5,424.59	152,419.31
Other reserves.....				3,977.40
Total reserves.....	14,953.83	43,505.99	21,562.26	353,922.86
SURPLUS				
Debentures paid.....	15,000.00	30,522.93	9,500.00	255,781.17
Local sinking fund.....				
Operating surplus.....	25,244.76	48,686.37	*13,907.71	*154,364.43
Net frequency standardization ex- pense charged this year.....				
Total surplus.....	40,244.76	79,209.30	23,407.71	410,145.60
Total liabilities, reserves and surplus...	55,616.74	122,769.46	45,103.25	991,830.35
Percentage of net debt to total assets...	0.9	0.1	0.5	28.7

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

"A"—Continued

Utilities as at December 31, 1950

Stayner	Stirling	Stoney Creek	Stouffville	Stratford	Strathroy
1,252	1,151	1,703	1,664	18,836	3,581
\$	\$	\$	\$	\$	\$
200.00	8,522.88			141,455.78	9,373.61
22,303.14	8,034.64			187,174.58	48,999.69
	11,780.05	34,424.73	21,513.90	163,350.25	67,769.39
				22,971.15	
13,624.46	8,182.30	20,357.55	12,760.35	138,144.74	47,816.82
11,576.91	8,910.41	16,390.72	8,967.99	116,711.56	24,820.81
2,180.56	3,559.79	1,745.88	2,427.90	27,281.22	8,115.66
535.16	773.94	456.64	439.59	31,060.90	1,715.88
50,420.23	49,764.01	73,375.52	46,109.73	828,150.18	208,611.86
6,454.31	9,609.37	1,275.13	12,198.15	30,913.22	2,316.69
11,000.00	12,500.00		6,000.00	398,000.00	16,000.00
581.52	1,055.02	79.41	126.86	31,521.39	502.43
107.53	1,308.76			39,861.14	444.67
				39,880.28	
32,464.21	19,535.47	3,244.95	35,476.74	1,058,609.68	168,794.94
200.00				3,101.00	
			70.09	10.00	1,813.00
101,227.80	93,772.63	77,975.01	99,981.57	2,430,046.89	398,483.59
		37,121.61		50,000.00	1,523.28
3,813.18		1,032.87		2,373.67	665.95
406.78	409.93	505.00	670.66	7,582.09	1,340.59
4,219.96	409.93	38,659.48	670.66	59,955.76	3,529.82
32,464.21	19,535.47	3,244.95	35,476.74	1,058,609.68	168,794.94
16,061.21	11,860.31	4,720.42	5,127.83	486,457.91	61,368.62
38.90			50.96	3,448.15	116.30
48,564.32	31,395.78	7,965.37	40,655.53	1,548,515.74	230,279.86
9,557.26	10,000.00	2,878.39	14,673.90	405,800.00	52,365.57
38,886.26	51,966.92	28,471.77	*43,981.48	39,880.28	
				*375,895.11	*112,308.34
48,443.52	61,966.92	31,350.16	58,655.38	821,575.39	161,673.91
101,227.80	93,772.63	77,975.01	99,981.57	2,430,046.89	398,483.59
6.1	0.6	51.7	1.0	4.4	1.5

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Municipal Electrica

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Streetsville	Sunderland	Sutton	Swansea
Population	1,020	492	1,208	7,864
ASSETS	\$	\$	\$	\$
Lands and buildings	12,226.15			5,577.66
Substation equipment	1,172.04			22,759.66
Distribution system—overhead	14,753.01	7,069.18	28,700.90	117,122.85
Distribution system—underground				
Line transformers	13,504.59	4,206.15	20,742.98	59,225.42
Meters	8,927.19	3,971.30	7,844.92	46,197.78
Street light equipment, regular	1,845.62	802.58	2,813.24	24,734.34
Street light equipment, ornamental				
Miscellaneous construction expense	188.41		1,455.76	26,354.57
Steam or hydraulic plant	10,641.55			
Old plant				
Total plant	63,258.56	16,049.21	61,557.80	301,972.28
Bank and cash balance	3,966.95	6,924.32	1,583.63	4,214.28
Securities and investments			7,000.00	
Accounts receivable	655.87	178.15	3,715.38	3,446.52
Inventories				307.32
Sinking fund on local debentures				
Equity in H-E.P.C. systems	12,004.67	18,585.08	35,518.19	189,068.58
Other assets	76.80	200.00		12,189.21
Frequency standardization expenditure in suspense	75.00		11,439.72	244.96
Total assets	80,037.85	41,936.76	120,814.72	511,443.15
LIABILITIES				
Debenture balance				29,445.53
Accounts payable	1,730.87	1,808.27	3,491.55	3,245.78
Bank overdraft				
Other liabilities	335.65	15.00	15.00	5,725.69
Total liabilities	2,066.52	1,823.27	3,506.55	38,417.00
RESERVES				
For equity in H-E.P.C. systems	12,004.67	18,585.08	35,518.19	189,068.58
For depreciation	8,205.92	5,630.21	13,771.10	60,736.20
Other reserves	86.00	52.28	145.84	345.59
Total reserves	20,296.59	24,267.57	49,435.13	250,150.37
SURPLUS				
Debentures paid	17,545.08	4,627.78	25,325.00	73,221.43
Local sinking fund				
Operating surplus	*40,129.66	11,218.14	*42,548.04	*149,654.35
Net frequency standardization expense charged this year				
Total surplus	57,674.74	15,845.92	67,873.04	222,875.78
Total liabilities, reserves and surplus	80,037.85	41,936.76	120,814.72	511,443.15
Percentage of net debt to total assets	3.0	7.8	4.7	11.9

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

“A”—Continued

Utilities as of December 31, 1950

Tara 477	Tavistock 1,057	Tecumseh 3,335	Teeswater 870	Thamesford 539	Thamesville 886	Thedford 600
\$	\$	\$	\$	\$	\$	\$
16,333.09	3,783.53 18,311.74	1,482.16 57,447.57	2,010.00 22,383.91	11,729.45	1,083.57 19,250.91	14,403.25
5,665.52	11,483.77	19,148.43	10,532.11	4,907.55	12,085.14	8,804.65
3,331.79	9,106.33	23,229.54	6,883.30	4,547.28	7,196.58	4,261.36
2,755.90	1,301.20	441.17	4,043.35	612.03	3,054.33	1,703.10
150.86	1,096.20	1,554.23		624.00	1,387.76	286.68
28,237.16	45,082.77	103,303.10	45,852.67	22,420.31	44,058.29	29,459.04
2,648.37	15.00	5,647.98	1,387.07	825.67	2,566.03	1,280.70
	9,500.00	5,000.00	11,000.00	2,000.00	8,000.00	10,000.00
68.90	221.67	1,783.06	46.84	59.84	957.72	1,043.64
	2,549.74	441.25				
16,393.17	84,334.17	51,877.20	23,775.34	32,110.67	32,180.54	18,993.40
				13.69		200.07
47,347.60	141,703.35	168,052.59	82,061.92	57,430.18	87,762.58	60,976.85
41.04		313.47		69.25	4,476.78	52.23
	517.32					
		781.40	819.00	101.00	709.26	129.33
41.04	517.32	1,094.87	819.00	170.25	5,186.04	181.56
16,393.17	84,334.17	51,877.20	23,775.34	32,110.67	32,180.54	18,993.40
4,255.02	17,715.19	27,929.36	12,917.21	7,147.28	13,900.87	5,839.99
		494.01			143.38	
20,648.19	102,049.36	80,300.57	36,692.55	39,257.95	46,224.79	24,833.39
14,263.64	6,000.00	26,000.00	21,296.14	5,358.03	11,187.80	16,500.00
12,394.73	33,136.67	60,657.15	23,254.23	*12,643.95	25,163.95	*19,461.90
26,658.37	39,136.67	86,657.15	44,550.37	18,001.98	36,351.75	35,961.90
47,347.60	141,703.35	168,052.59	82,061.92	57,430.18	87,762.58	60,976.85
0.1	0.9	0.9	1.4	0.7	9.3	0.4

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Thornbury	Thorndale	Thornton	Thorold
Population.....	975	263	183	6,389
ASSETS	\$	\$	\$	\$
Lands and buildings.....				15,198.45
Substation equipment.....	4,404.73			51,711.17
Distribution system—overhead.....	15,539.71	5,745.00	8,048.32	81,143.55
Distribution system—underground.....				
Line transformers.....	11,295.69	3,495.62	3,017.29	43,388.09
Meters.....	7,637.39	2,667.61	1,409.12	39,489.78
Street light equipment, regular.....	1,400.86	417.81	519.06	10,687.47
Street light equipment, ornamental.....				
Miscellaneous construction expense.....	336.00			8,396.63
Steam or hydraulic plant.....	36,000.00			
Old plant.....				
Total plant.....	76,614.38	12,326.04	12,993.79	250,015.14
Bank and cash balance.....		2,665.46	330.48	50.00
Securities and investments.....		1,100.00		
Accounts receivable.....	759.07	449.56	35.22	4,183.52
Inventories.....	75.00	845.53		8,159.88
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....	2,100.74	15,767.50	6,340.81	207,077.57
Other assets.....			260.61	
Frequency standardization expenditure in suspense.....		13.70		
Total assets.....	79,549.19	33,167.79	19,960.91	469,486.11
LIABILITIES				
Debenture balance.....	5,052.14			
Accounts payable.....	1,898.10	61.52	271.59	1,713.54
Bank overdraft.....	1,370.18			6,755.29
Other liabilities.....	15.00	50.57	50.00	3,082.50
Total liabilities.....	8,335.42	112.09	321.59	11,551.33
RESERVES				
For equity in H-E.P.C. systems.....	2,100.74	15,767.50	6,340.81	207,077.57
For depreciation.....	4,092.50	4,691.22	7,118.07	46,391.64
Other reserves.....		27.73		
Total reserves.....	6,193.24	20,486.45	13,458.88	253,469.21
SURPLUS				
Debentures paid.....	50,947.86	3,086.48	7,199.65	5,000.00
Local sinking fund.....				
Operating surplus.....	14,072.67	*9,482.77	1,019.21	199,465.57
Net frequency standardization expense charged this year.....				
Total surplus.....	65,020.53	12,569.25	6,180.44	204,465.57
Total liabilities, reserves and surplus...	79,549.19	33,167.79	19,960.91	469,486.11
Percentage of net debt to total assets...	10.8	0.6	2.4	4.4

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

“A”—Continued

Utilities as at December 31, 1950

Tilbury 2,848	Tillsonburg 4,991	Toronto 667,487	Toronto Twp. (V.A.)	Tottenham 594	Tráfalgar Twp. (V.A.)
\$ 11,987.47	\$ 30,063.37	\$ 5,928,886.65	\$ 15,768.66	\$ 358.50	\$ 12,896.07
33,285.89	83,889.65	17,230,927.10	438,188.14	14,048.63	839.61
28,589.58	56,498.87	8,163,710.70	258,419.50	6,077.65	79,023.81
15,010.93	40,724.27	4,893,161.49	126,663.17	5,052.30	41,153.32
18,231.76	27,098.70	5,245,360.87	20,625.83	1,560.07	21,646.66
2,833.44	7,041.92	3,581,122.45	27,001.58	737.76	192.54
109,939.07	267,247.82	917,793.08	886,666.88	27,834.91	4,429.84
1,593.76	100.00	2,736,554.58	27,834.91	638.98	160,181.85
352.77	942.52	628,048.75	17,958.58	86.00	20.00
76.69	5,034.56	10,965,400.00	8,300.00	346.67	3,620.26
100,298.15	169,361.52	2,907,247.01	31,997.23	20,283.22	6,662.90
18.82		1,419,857.78	58,549.69		27,302.93
5.00		38,253,711.66	261,052.25		
212,284.26	442,686.42	401,525.93	266.12		
			3,604.00		
			1,268,394.75	49,189.78	197,787.94
373.00	5,968.10	337,000.00	120,074.29	8,908.53	28,883.52
947.25	38,741.37	1,856,660.83	167,574.92		7,846.84
	4,843.51	185,952.85	10,002.52	304.60	22,738.66
1,320.25	49,552.98	2,379,613.68	297,651.73	9,213.13	953.00
100,298.15	169,361.52	38,253,711.66	261,052.25	20,283.22	60,422.02
31,623.00	49,275.94	18,877,556.94	208,348.34	4,394.96	27,302.93
148.60	172.20	1,245,235.88	1,254.42		33,502.23
132,069.75	218,809.66	58,376,504.48	470,655.01	24,678.18	200.00
14,000.00	40,031.90	29,191,020.28	108,925.71	12,526.44	61,005.16
*64,894.26	134,291.88	13,400,846.37	*391,162.30	2,772.03	30,004.04
		74,676.76			46,356.72
78,894.26	174,323.78	42,517,189.89	500,088.01	15,298.47	76,360.76
212,284.26	442,686.42	103,273,308.05	1,268,394.75	49,189.78	197,787.94
1.2	18.1	3.7	29.7	31.9	35.4

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Trenton	Tweed	Uxbridge	Victoria Harbour
Population.....	9,766	1,659	1,734	969
ASSETS	\$	\$	\$	\$
Lands and buildings.....	6,454.06			
Substation equipment.....	61,856.00		2,657.65	
Distribution system—overhead.....	162,199.81	26,558.89	27,278.34	14,698.80
Distribution system—underground.....				
Line transformers.....	61,583.61	14,690.87	12,638.53	3,660.33
Meters.....	64,484.67	9,560.41	10,976.33	5,962.42
Street light equipment, regular.....	27,660.75	3,897.02	2,177.71	525.70
Street light equipment, ornamental.....				
Miscellaneous construction expense.....	10,728.84	22.50	126.65	120.70
Steam or hydraulic plant.....				
Old plant.....				
Total plant.....	394,967.74	54,729.69	55,855.21	24,967.95
Bank and cash balance.....	200.00	7,340.24	8,027.87	1,731.82
Securities and investments.....	105,500.00	12,000.00	10,000.00	1,500.00
Accounts receivable.....	1,257.34	3,718.81	454.36	497.07
Inventories.....	17,354.72	5,116.25	202.15	
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....	214,369.55	23,785.30	39,624.51	12,052.04
Other assets.....	180.46		984.80	
Frequency standardization expenditure in suspense.....				
Total assets.....	733,829.81	106,690.29	115,148.90	40,748.88
LIABILITIES				
Debenture balance.....				
Accounts payable.....	1,649.03	17.34	427.40	
Bank overdraft.....	7,417.24			
Other liabilities.....	6,592.82	477.49	892.00	
Total liabilities.....	15,659.09	494.83	1,319.40	
RESERVES				
For equity in H-E.P.C. systems.....	214,369.55	23,785.30	39,624.51	12,052.04
For depreciation.....	117,903.55	3,138.66	8,367.12	8,183.19
Other reserves.....		151.00	184.37	
Total reserves.....	332,273.10	27,074.96	48,176.00	20,235.23
SURPLUS				
Debentures paid.....	164,586.70	19,000.00	15,364.09	5,878.70
Local sinking fund.....				
Operating surplus.....	221,310.92	60,120.50	50,289.41	14,634.95
Net frequency standardization expense charged this year.....				
Total surplus.....	385,897.62	79,120.50	65,653.50	20,513.65
Total liabilities, reserves and surplus.....	733,829.81	106,690.29	115,148.90	40,748.88
Percentage of net debt to total assets.....	3.0	0.6	1.7	0.0

“A”—Continued

Utilities as at December 31, 1950

Walkerton	Wallaceburg	Wardsville	Warkworth	Waterdown	Waterford
3,247	7,225	365	522	1,306	1,677
\$ 47.92	\$ 56,112.80	\$	\$	\$ 200.00	\$ 1,323.44
56,664.97	68,938.83				
	127,339.10	7,679.70	8,010.40	23,904.15	18,915.28
34,909.17	86,139.55	3,336.34	3,919.38	13,393.08	15,480.90
22,511.88	48,407.25	2,746.89	3,118.49	9,328.54	11,458.78
8,436.37	13,952.09	662.94	378.10	1,532.97	3,607.91
3,642.04	7,464.62	119.18	609.19	1,181.08	2,219.83
4,897.60			3,618.02		
131,109.95	408,354.24	14,545.05	19,653.58	49,539.82	53,006.14
6,110.46	54,862.81	228.12	1,523.40	551.12	4,058.37
40,000.00	70,500.00	3,500.00	4,200.00	4,000.00	11,000.00
870.37	10,866.90	693.45	96.22	550.92	182.06
678.56	29,625.41			52.85	316.00
52,249.21	395,709.52	7,233.57	8,112.54	39,521.11	59,107.51
2,121.65	6.50			20.00	19.39
	4,000.00				
233,140.20	973,925.38	26,200.19	33,585.74	94,235.82	127,689.47
4,814.56			2,769.10		
741.85	2,253.24	457.07	3,820.23	475.47	133.39
731.00	4,024.01		25.20	129.28	264.00
6,287.41	6,277.25	457.07	6,614.53	604.75	397.39
52,249.21	395,709.52	7,233.57	8,112.54	39,521.11	59,107.51
13,750.71	109,392.43	4,675.73	2,182.47	13,580.02	16,377.68
37.15	1,919.11	25.22			
66,037.07	507,021.06	11,934.52	10,295.01	53,101.13	75,485.19
58,185.44	71,536.58	7,562.40	8,230.90	8,000.00	7,745.53
102,630.28	*389,090.49	6,246.20	8,445.30	32,529.94	44,061.36
160,815.72	460,627.07	13,808.60	16,676.20	40,529.94	51,806.89
233,140.20	973,925.38	26,200.19	33,585.74	94,235.82	127,689.47
3.5	1.1	2.4	26.0	1.1	0.6

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Waterloo	Watford	Waubau- shene	Welland
Population.....	11,465	1,131	.....	15,729
ASSETS	\$	\$	\$	\$
Lands and buildings.....	20,996.05	857.01	.....	79,869.27
Substation equipment.....	124,724.88	.....	.....	170,953.98
Distribution system—overhead.....	148,024.95	19,098.56	12,870.84	225,080.23
Distribution system—underground.....	.....	.....	.....	9,495.59
Line transformers.....	104,187.67	9,323.02	4,926.00	151,635.61
Meters.....	63,995.12	8,034.85	4,329.35	110,815.46
Street light equipment, regular.....	16,460.18	2,824.74	471.57	46,800.47
Street light equipment, ornamental.....	.....	.....	.....	.....
Miscellaneous construction expense..	10,635.39	177.61	10.00	13,827.45
Steam or hydraulic plant.....	.....	.....	.....	.....
Old plant.....	.....	.....	.....	.....
Total plant.....	489,024.24	40,315.79	22,607.76	808,478.06
Bank and cash balance.....	200.00	6,121.83	1,035.28	25,400.90
Securities and investments.....	.....	20,000.00	.....	64,109.50
Accounts receivable.....	2,891.11	676.57	904.33	5,677.21
Inventories.....	15,694.32	876.01	.....	25,670.59
Sinking fund on local debentures.....	.....	.....	.....	.....
Equity in H-E.P.C. systems.....	522,132.88	47,461.15	9,578.67	648,986.22
Other assets.....	238.25	3.24	19.47	371.33
Frequency standardization expendi- ture in suspense.....	.....	189.24	.....	909.00
Total assets.....	1,030,180.80	115,643.83	34,145.51	1,579,602.81
LIABILITIES				
Debenture balance.....	.....	.....	.....	.....
Accounts payable.....	8,065.86	157.77	1,001.68	6,363.57
Bank overdraft.....	1,219.80	.....	.....	.....
Other liabilities.....	5,165.00	367.10	200.00	16,136.56
Total liabilities.....	14,450.66	524.87	1,201.68	22,500.13
RESERVES				
For equity in H-E.P.C. systems.....	522,132.88	47,461.15	9,578.67	648,986.22
For depreciation.....	209,234.68	15,802.35	3,576.21	265,317.90
Other reserves.....	401.80	92.53	125.00	2,594.12
Total reserves.....	731,769.36	63,356.03	13,279.88	916,898.24
SURPLUS				
Debentures paid.....	106,000.00	9,055.77	3,242.34	275,000.00
Local sinking fund.....	.....	.....	.....	.....
Operating surplus.....	177,960.78	*42,707.16	16,421.61	*365,204.44
Net frequency standardization ex- pense charged this year.....	.....	.....	.....	.....
Total surplus.....	283,960.78	51,762.93	19,663.95	640,204.44
Total liabilities, reserves and surplus...	1,030,180.80	115,643.83	34,145.51	1,579,602.81
Percentage of net debt to total assets...	2.8	0.8	4.9	2.4

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

“A”—Continued

Utilities as of December 31, 1950

Wellesley 560	Wellington 998	West Lorne 995	Weston 8,018	Westport 720	Wheatley 1,003	Whitby 7,021
\$	\$	\$	\$	\$	\$	\$
.....	225.00	22,843.56	22,455.44	.....	52.50	91,586.94
.....	499.80	.....	70,669.18	.....	.....	34,288.16
9,340.88	17,757.37	17,408.15	165,932.49	9,321.71	25,994.50	91,764.22
.....
5,266.54	10,695.49	8,651.95	104,030.78	2,944.02	15,515.78	31,825.47
4,536.53	9,511.74	7,628.96	57,800.30	3,470.87	9,667.51	33,313.38
844.94	2,142.77	3,774.37	16,085.90	774.24	9,624.15	14,279.03
.....
601.53	139.20	360.00	6,762.67	1,321.29	1,277.54	13,359.75
.....
.....	.....	.....	.....	1,713.00	.....	1,340.13
.....
20,590.42	40,971.37	60,666.99	443,736.76	19,545.13	62,131.98	311,757.08
.....
2,861.55	7,792.90	3,391.64	150.00	1,393.00	4,220.67	6,109.81
6,000.00	9,500.00	.....	.....	3,500.00	.....	.....
.....	237.91	370.44	8,157.91	.....	559.22	5,665.86
73.41	.....	460.27	15,986.41	.....	.....	11,275.80
.....
27,814.36	21,698.10	46,308.19	456,489.46	11,903.37	28,699.39	109,028.06
.....	.....	46.44	988.60	.....	.....	164.14
.....
.....	.....	5.00	292.50	.....	.....	.....
57,339.74	80,200.28	111,248.97	925,801.64	36,341.50	95,611.26	444,000.75
.....
.....	.....	.....	14,000.00	1,189.75	9,000.00	587.37
.....	10.43	4,008.00	22,344.93	151.68	87.44	4,813.09
.....	.....	.....	29,364.86	.....	.....	.....
5.00	46.25	295.00	1,897.52	342.42	155.00	3,071.31
.....
5.00	56.68	4,303.00	67,607.31	1,683.85	9,242.44	8,471.77
.....
27,814.36	21,698.10	46,308.19	456,489.46	11,903.37	28,699.39	109,028.06
6,611.19	5,605.38	13,657.46	82,896.36	3,512.82	14,481.53	64,061.90
.....	.....	65.12	558.55	.....	44.30	.....
.....
34,425.55	27,303.48	60,030.77	539,944.37	15,416.19	43,225.22	173,089.96
.....
7,500.00	13,816.12	8,000.00	70,532.44	13,810.25	13,000.00	76,025.13
.....
15,409.19	39,024.00	*38,915.20	*247,717.52	5,431.21	30,143.60	186,413.89
.....
.....
22,909.19	52,840.12	46,915.20	318,249.96	19,241.46	43,143.60	262,439.02
.....
57,339.74	80,200.28	111,248.97	925,801.64	36,341.50	95,611.26	444,000.75
.....
0.0	0.1	7.8	14.4	6.9	13.8	2.5

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Warton	Williams- burg 300	Winchester	Windermere
Population	1,983	300	1,152	135
ASSETS	\$	\$	\$	\$
Lands and buildings			299.85	
Substation equipment.....	333.57			
Distribution system—overhead.....	30,989.68	7,792.68	16,089.33	10,879.21
Distribution system—underground...				
Line transformers.....	16,407.52	2,860.65	11,083.95	6,503.32
Meters.....	12,736.09	2,558.16	8,757.08	2,018.29
Street light equipment, regular.....	4,076.69	1,718.48	3,089.40	247.26
Street light equipment, ornamental..				
Miscellaneous construction expense..	5,572.95	35.38	123.00	525.65
Steam or hydraulic plant.....				
Old plant.....	1,870.35		1,100.00	
Total plant.....	71,986.85	14,965.35	40,542.61	20,173.73
Bank and cash balance.....	5,967.05	7,778.20	2,583.00	804.69
Securities and investments.....	17,000.00	19,000.00	10,500.00	1,600.00
Accounts receivable.....	1,864.73	1,056.69	186.54	28.88
Inventories.....		75.90		
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....	33,571.60	11,532.32	38,457.58	5,649.09
Other assets.....	74.00			228.90
Frequency standardization expenditure in suspense.....				
Total assets.....	130,464.23	54,408.46	92,269.73	28,485.29
LIABILITIES				
Debenture balance.....	5,580.29			991.47
Accounts payable.....	3,001.07	7,269.81	777.18	27.27
Bank overdraft.....				
Other liabilities.....	172.21	293.43	160.00	
Total liabilities.....	8,753.57	7,563.24	937.18	1,018.74
RESERVES				
For equity in H-E.P.C. systems.....	33,571.60	11,532.32	38,457.58	5,649.09
For depreciation.....	7,636.84	1,753.01	11,257.87	5,756.17
Other reserves.....	84.95	310.82		
Total reserves.....	41,293.39	13,596.15	49,715.45	11,405.26
SURPLUS				
Debentures paid.....	31,819.71	2,750.00	10,306.06	10,771.83
Local sinking fund.....				
Operating surplus.....	48,597.56	30,499.07	31,311.04	5,289.46
Net frequency standardization expense charged this year.....				
Total surplus.....	80,417.27	33,249.07	41,617.10	16,061.29
Total liabilities, reserves and surplus...	130,464.23	54,408.46	92,269.73	28,485.29
Percentage of net debt to total assets...	9.0	17.6	1.7	4.5

“A”—Continued

Utilities as at December 31, 1950

Windsor	Wingham	Woodbridge	Woodstock	Woodville	Wyoming
121,011	2,611	1,592	14,710	375	648
\$	\$	\$	\$	\$	\$
620,570.11	23,619.11		69,076.18		50.00
1,755,141.26	6,822.13		196,260.70		
1,628,041.44	57,776.62	24,984.55	201,843.23	4,180.70	14,401.31
651,665.49					
773,441.05	27,975.68	14,797.10	119,052.27	1,987.43	5,227.40
749,793.32	25,442.82	9,623.50	109,607.13	2,868.61	5,428.29
106,986.59	11,734.97	2,805.87	36,461.16	738.77	548.49
184,154.05	16,580.53	42.60	19,545.20		1.00
	14,711.99		24,757.20		
	12,320.02				
6,469,793.31	196,983.87	52,253.62	776,603.07	9,775.51	25,656.49
1,500.00	5,080.53	2,894.17	15,339.31	2,609.36	1,997.88
1,096,895.41		12,000.00	80,000.00	5,000.00	2,100.00
378,958.28	3,189.07	103.21	8,649.69	228.75	190.58
472,088.98	21,799.78	74.00	237.30		
110,470.12					
6,205,182.25	78,484.76	64,953.81	781,856.53	17,547.90	15,861.28
1,270.30	503.97		388.87	300.00	
8,336.17		42.80	2,150.00		2,759.30
14,744,494.82	306,041.98	132,321.61	1,665,224.77	35,461.52	48,565.53
190,000.00	2,876.34		160,000.00		
197,118.34	93.14	7,347.37	3,353.73	1,017.85	3,354.91
406,352.83					
137,158.30	1,690.15	1,107.37	10,436.42	10.00	48.89
930,629.47	4,659.63	8,454.74	173,790.15	1,027.85	3,403.80
6,205,182.25	78,484.76	64,953.81	781,856.53	17,547.90	15,861.28
2,290,741.65	45,885.65	17,211.96	237,967.40	3,390.05	7,820.68
236,656.88			1,086.01	544.81	32.63
8,732,580.78	124,370.41	82,165.77	1,020,909.94	21,482.76	23,714.59
2,393,832.05	93,229.16	8,499.97	127,385.63	5,248.09	9,700.00
110,470.12					
*2,576,982.40	83,782.78	*33,201.13	*343,139.05	7,702.82	*11,747.14
5,081,284.57	177,011.94	41,701.10	470,524.68	12,950.91	21,447.14
14,744,494.82	306,041.98	132,321.61	1,665,224.77	35,461.52	48,565.53
10.9	2.0	12.6	19.7	5.7	10.4

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Concluded

THUNDER

Municipality.....	York Twp.	Zurich	SOUTHERN ONTARIO SYSTEM SUMMARY	Fort William 34,409
Population	95,669	572		
ASSETS	\$	\$	\$	\$
Lands and buildings	254,537.71		15,690,604.61	182,519.04
Substation equipment.....	499,147.43		35,391,782.76	400,321.40
Distribution system—overhead....	1,114,802.22	9,741.34	37,166,809.80	617,490.89
Distribution system—underground.....			9,880,526.08	
Line transformers	625,184.10	6,126.44	21,864,699.07	196,883.18
Meters.....	471,778.05	4,756.27	16,106,910.90	163,102.69
Street light equipment, regular....	131,965.06	857.38	4,839,426.96	97,087.44
Street light equipment, ornamental				
Miscellaneous construction expense	39,878.00	48.31	5,050,833.54	74,661.00
Steam or hydraulic plant.....			2,989,392.40	
Old plant			117,849.59	
Total plant.....	3,137,292.57	21,529.74	149,098,835.71	1,732,065.64
Bank and cash balance	6,155.32	1,338.41	2,708,234.88	60,598.25
Securities and investments.....	100,000.00	5,500.00	18,807,633.12	205,300.00
Accounts receivable.....	102,372.19	264.77	6,692,810.20	85,378.26
Inventories	53,308.84		4,868,619.30	77,989.31
Sinking fund on local debentures ..			397,051.17	180,904.73
Equity in H-E.P.C. systems	1,510,737.43	24,434.97	102,350,728.78	1,803,439.72
Other assets			910,544.27	200.00
Frequency standardization expendi- ture in suspense	68,607.68		767,592.91	
Total assets	4,978,474.03	53,067.89	286,602,050.34	4,145,875.91
LIABILITIES				
Debenture balance.....			13,190,165.02	690,000.00
Accounts payable	136,053.54	159.70	5,529,891.03	106,805.38
Bank overdraft			1,391,981.15	
Other liabilities	131,199.75	10.00	1,342,811.69	49,636.89
Total liabilities	267,253.29	169.70	21,454,848.89	846,442.27
RESERVES				
For equity in H-E.P.C. systems....	1,510,737.43	24,434.97	102,350,728.78	1,803,439.72
For depreciation	940,869.29	6,222.55	44,333,942.62	325,812.91
Other reserves	120,854.75		4,047,072.03	36,882.35
Total reserves.....	2,572,461.47	30,657.52	150,731,743.43	2,166,134.98
SURPLUS				
Debentures paid	489,374.65	5,591.61	55,057,622.95	124,209.11
Local sinking fund			397,051.17	180,904.73
Operating surplus	*1,649,384.62	16,649.06	*59,193,566.86	828,184.82
Net frequency standardization ex- pense charged this year			232,782.96	
Total surplus	2,138,759.27	22,240.67	114,415,458.02	1,133,298.66
Total liabilities, reserves and surplus.	4,978,474.03	53,067.89	286,602,050.34	4,145,875.91
Percentage of net debt to total assets.	7.9	0.6	11.5	30.8

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

“A”—Continued

Utilities as at December 31, 1950

BAY SYSTEM

Nipigon Twp. (V.A.)	Port Arthur 31,842	Red Rock Imp. Dist. 1,411	Schreiber Twp. 1,849	Terrace Bay Imp. Dist. 1,270	THUNDER BAY SYSTEM SUMMARY
\$	\$	\$	\$	\$	\$
215.03	537,289.91		6,765.91		726,789.89
	470,440.47	900.00			871,661.87
28,761.06	692,489.73	19,918.42	29,429.44	43,004.18	1,431,093.72
12,435.21	194,884.36	9,452.94	9,075.41	13,846.54	436,577.64
9,202.46	192,534.62	4,823.39	8,110.61	8,874.76	386,648.53
5,626.79	103,427.14	3,601.86	1,253.64	13,124.93	224,121.80
1,103.00	31,365.95	2,562.00	1,553.48	2,213.42	113,458.85
	333,375.49				333,375.49
			19,962.18		19,962.18
57,343.55	2,555,807.67	41,258.61	76,150.67	81,063.83	4,543,689.97
6,877.56		3,933.84	1,551.77	20,467.26	93,428.68
11,000.00	627,007.87				843,307.87
551.70	77,671.38	638.17	235.62	36.00	164,511.13
	73,949.41		1,170.54		153,109.26
			14,535.32		195,440.05
24,861.83	4,284,000.23	3,573.66	1,803.02	6,592.95	6,124,271.41
14.75	196.00				410.75
100,649.39	7,618,632.56	49,404.28	95,446.94	108,160.04	12,118,163.11
		27,690.00	42,092.74	78,000.00	837,782.74
1,001.03	97,487.11	318.75	367.20		205,979.47
	43,598.13				43,598.13
546.23					50,183.12
1,547.26	141,085.24	28,008.75	42,459.94	78,000.00	1,137,543.46
24,861.83	4,284,000.23	3,573.66	1,803.02	6,592.95	6,124,271.41
6,170.66	995,068.30	2,256.44	1,531.90	4,677.00	1,335,517.21
	148,791.00				185,673.35
31,032.49	5,427,859.53	5,830.10	3,334.92	11,269.95	7,645,461.97
10,000.00	626,317.40	3,510.00	7,907.26		771,943.77
			14,535.32		195,440.05
58,069.64	1,423,370.39	12,055.43	27,209.50	18,890.09	2,367,779.87
68,069.64	2,049,687.79	15,565.43	49,652.08	18,890.09	3,335,163.69
100,649.39	7,618,632.56	49,404.28	95,446.94	108,160.04	12,118,169.12
0.2	4.2	61.1	53.7	76.8	16.2

STATEMENT

Balance Sheets of Municipal Electrical

NORTHERN ONTARIO PROPERTIES

Municipality.....	Capreol	Larder Lake Twp. (V.A.)	Latchford	McGarry Imp. Dist.
Population.....	1,897	1,960	532	2,187
ASSETS	\$	\$	\$	\$
Lands and buildings.....	450.00			
Substation equipment.....	9,730.32			
Distribution system—overhead.....	16,003.59	19,615.20	1,522.29	19,430.09
Distribution system—underground...				
Line transformers.....	10,076.02	11,481.00	1,018.02	9,655.00
Meters.....	10,194.13	9,819.86	565.89	6,818.08
Street light equipment, regular.....	5,258.37	2,269.55		961.50
Street light equipment, ornamental..				
Miscellaneous construction expense..	599.37	2,852.06	15.00	633.13
Steam or hydraulic plant.....				
Old plant.....			†25,068.78	
Total plant.....	52,311.80	46,037.67	28,189.98	37,497.80
Bank and cash balance.....	3,110.68	1,525.15	1,204.38	
Securities and investments.....	1,000.00			
Accounts receivable.....	1,338.44	902.71	733.30	141.75
Inventories.....	987.23			
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....				
Other assets.....				
Frequency standardization expenditure in suspense.....				
Total assets.....	58,748.15	48,465.53	30,127.66	37,639.55
LIABILITIES				
Debenture balance.....		17,100.00		13,500.00
Accounts payable.....	4,504.98	445.56	28,656.04	
Bank overdraft.....				2,057.98
Other liabilities.....	540.00	5,628.29	140.00	3,581.04
Total liabilities.....	5,044.98	23,173.85	28,796.04	19,139.02
RESERVES				
For equity in H-E.P.C. systems.....				
For depreciation.....	9,907.40	11,500.00	329.00	6,259.00
Other reserves.....	82.34	28.90		
Total reserves.....	9,989.74	11,528.90	329.00	6,259.00
SURPLUS				
Debentures paid.....	19,000.00	900.00		500.00
Local sinking fund.....				
Operating surplus.....	24,713.43	12,862.78	1,002.62	11,741.53
Net frequency standardization expense charged this year.....				
Total surplus.....	43,713.43	13,762.78	1,002.62	12,241.53
Total liabilities, reserves and surplus...	58,748.15	48,465.53	30,127.66	37,639.55
Percentage of net debt to total assets...	8.6	47.8	95.5	50.8

†Plant not distributed.

“A”—Concluded

Utilities as at December 31, 1950

North Bay 18,295	Sioux Lookout 2,225	Sudbury 47,054	NORTHERN ONTARIO PROPERTIES SUMMARY	ALL SYSTEMS GRAND SUMMARY
\$	\$	\$	\$	\$
61,535.83	7,391.71	172,605.53	241,983.07	16,659,377.57
108,671.56	.....	302,890.33	421,292.21	36,684,736.84
215,147.53	27,827.77	537,993.27	837,539.74	39,435,443.26
.....	.....	.....	.....	9,880,526.08
80,825.74	13,877.30	210,829.15	337,762.23	22,639,038.94
118,096.03	11,557.73	206,767.09	363,818.81	16,857,378.24
40,537.40	6,584.94	152,664.67	208,276.43	5,271,825.19
.....
20,503.11	704.00	44,490.13	69,796.80	5,234,089.19
.....	.....	.....	.....	3,322,767.89
.....	.....	.....	25,068.78	162,880.55
645,317.20	67,943.45	1,628,240.17	2,505,538.07	156,148,063.75
.....	230.50	.....	6,070.71	2,807,734.27
.....	5,003.57	50,000.00	56,003.57	19,706,944.56
15,184.75	3,751.97	42,702.18	64,755.10	6,922,076.43
26,249.78	.....	65,243.80	92,480.81	5,114,209.37
.....	.....	.....	.....	592,491.22
6,291.33	289.20	.....	6,580.53	108,475,000.19
.....	.....	.....	.....	917,535.55
.....	.....	.....	.....	767,592.91
693,043.06	77,218.69	1,786,186.15	2,731,428.79	301,451,648.25
.....	.....	10,585.29	41,185.29	14,069,133.05
24,114.02	2,642.19	110,381.14	170,743.93	5,906,614.43
26,600.26	.....	6,179.27	34,837.51	1,470,416.79
47,439.31	2,921.26	35,783.76	96,033.66	1,489,028.47
98,153.59	5,563.45	162,929.46	342,800.39	22,935,192.74
.....	.....	.....	.....	108,475,000.19
285,045.22	1,903.68	326,154.43	641,098.73	46,310,558.56
3,035.17	.....	78,294.35	81,440.76	4,314,186.14
288,080.39	1,903.68	404,448.78	722,539.49	159,099,744.89
228,157.68	.....	456,753.24	705,310.92	56,534,877.64
78,651.40	69,751.56	762,054.67	960,777.99	592,491.22
.....	.....	.....	.....	*62,522,124.72
.....	.....	.....	.....	232,782.96
306,809.08	69,751.56	1,218,807.91	1,666,088.91	119,416,710.62
693,043.06	77,218.69	1,786,186.15	2,731,428.79	301,451,648.25
14.2	7.2	9.1	12.5	11.6

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM

Municipality.....	Acton	Agincourt	Ailsa Craig	Alexandria	Alliston
Population.....	3,030	824	481	2,163	1,829
EARNINGS	\$	\$	\$	\$	\$
Domestic service.....	30,311.79	12,264.38	4,977.34	16,537.75	22,077.55
Commercial light service.....	12,560.26	3,480.45	2,164.65	13,122.58	12,868.94
Commercial power service.....	51,079.74	7,722.58	2,511.43	5,481.31	8,792.81
Municipal power.....	928.75			917.05	945.42
Street lighting.....	3,147.71	1,097.00	670.00	2,326.14	2,148.70
Merchandise.....	150.38				
Miscellaneous.....	283.20	417.83	242.76	1,606.25	532.93
Total earnings.....	98,461.83	24,982.24	10,566.18	39,991.08	47,366.35
EXPENSES					
Power purchased.....	75,797.32	19,383.73	6,668.59	17,252.33	18,695.48
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	4,997.06	337.70	443.36	3,547.32	2,435.95
Line transformer maintenance.....	216.40	105.95	35.12	390.35	101.59
Meter maintenance.....	538.62	18.46	90.12	608.43	527.88
Consumers' premises expenses.....	104.29	176.02	0.75		2,603.27
Street lighting, operation and maintenance.....	487.28	123.76	140.61	207.37	196.95
Promotion of business.....					
Billing and collecting.....	1,651.87	1,144.16	483.29	1,484.19	1,667.37
General office, salaries and expenses.....	1,875.90	169.20	93.63	1,284.24	1,513.75
Undistributed expenses.....	951.59		8.96	214.69	180.76
Truck operation and maintenance.....	245.35			297.66	800.04
Interest.....					
Sinking fund and principal payments on debentures.....					
Depreciation.....	2,465.00	1,115.00	730.00	1,402.00	2,171.00
Other reserves.....					
Total operating costs and fixed charges.....	89,330.68	22,573.98	8,694.43	26,688.58	30,894.04
Net surplus.....	9,131.15	2,408.26	1,871.75	13,302.50	16,472.31
Net loss.....					
NUMBER OF CUSTOMERS					
Domestic service.....	786	246	168	566	551
Commercial light service.....	116	39	41	150	145
Power service.....	23	8	4	16	25
Total.....	925	293	213	732	721

“B”

Utilities for Year Ended December 31, 1950

Almonte 2,527	Alvinston 664	Amherstburg 3,444	Ancaster Twp. (V.A.)	Apple Hill 464	Arkona 361	Arnprior 4,326
\$	\$	\$	\$	\$	\$	\$
24,947.04	4,799.76	43,094.41	28,466.07	2,061.47	5,060.88	34,111.35
9,408.65	3,899.01	18,187.13	7,821.89	1,208.22	2,622.62	19,424.11
19,634.00	1,506.70	15,590.85	2,038.63	276.85	150.34	24,593.72
1,882.67	234.56					2,326.43
2,894.67	1,670.00	3,480.61	1,539.50	478.50	1,349.92	4,171.51
2,567.07						
5,291.54	440.00	2,325.24	385.74	142.73	126.72	2,966.11
66,625.64	12,550.03	82,678.24	40,251.83	4,167.77	9,310.48	87,593.23
21,766.55	7,859.58	58,775.17	23,870.89	1,439.99	5,989.09	57,138.01
10,383.84						
119.76						
3,849.98	737.59	5,895.98	2,081.01	174.91	764.17	3,167.45
7.79	53.86	419.90	351.85	4.85	25.51	350.68
443.81	56.06	627.65	201.80	96.16	35.05	506.00
71.78		1,986.35				246.04
498.49	187.16	1,064.01	254.41	33.50	247.21	754.15
3,248.42	549.08	1,241.43	814.23	335.08	386.03	4,109.09
2,839.48	520.58	1,910.02	1,549.06	137.55	256.52	3,657.59
478.44	54.81	849.71	156.46		9.78	520.45
910.05		366.59	796.52			
878.70			699.81		5.01	192.94
3,994.50						3,612.08
5,924.00	756.00	4,373.00	2,076.00	183.00	388.00	2,735.00
55,415.59	10,774.72	77,509.81	32,852.04	2,405.04	8,106.37	76,989.48
11,210.05	1,775.31	5,168.43	7,399.79	1,762.73	1,204.11	10,603.75
738	241	909	490	81	135	1,097
116	58	187	48	24	40	186
28	7	22	11	1	1	30
882	306	1,118	549	106	176	1,313

STATEMENT

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Arthur	Athens	Aurora	Aylmer	Ayr
Population.....	1,158	781	3,697	3,481	855
EARNINGS	\$	\$	\$	\$	\$
Domestic service.....	10,314.77	8,483.17	43,287.13	28,049.05	10,015.93
Commercial light service.....	8,789.31	4,253.07	15,319.05	19,288.89	4,426.02
Commercial power service.....	2,676.38	557.49	29,856.20	21,954.10	3,926.82
Municipal power.....	318.01	.....	2,016.21	1,768.56	.....
Street lighting.....	1,817.16	882.00	4,148.58	4,093.32	1,490.00
Merchandise.....	.....	.....	.....	.....	.....
Miscellaneous.....	152.78	281.69	459.19	883.93	262.77
Total earnings.....	24,068.41	14,457.42	95,086.36	76,037.85	20,121.54
EXPENSES					
Power purchased.....	13,273.68	5,889.37	55,646.22	53,363.38	12,912.33
Substation operation.....	.....	.....	.....	.....	.....
Substation maintenance.....	.....	.....	.....	.....	.....
Distribution system, operation and maintenance.....	1,981.84	189.60	5,380.40	4,486.72	1,212.51
Line transformer maintenance.....	.....	1.50	444.96	106.98	63.66
Meter maintenance.....	100.63	97.49	577.53	459.38	15.50
Consumers' premises expenses.....	.....	.....	5,841.77	638.88	12.32
Street lighting, operation and maintenance.....	440.38	47.83	991.80	862.41	316.48
Promotion of business.....	.....	.....	.....	25.36	.....
Billing and collecting.....	959.74	567.40	2,717.70	2,476.30	1,031.28
General office, salaries and expenses	385.34	219.97	2,018.75	1,827.57	63.06
Undistributed expenses.....	81.28	.....	755.30	776.03	268.67
Truck operation and maintenance.....	.....	.....	.....	756.45	.....
Interest.....	84.43	.....	.....	7.19	0.50
Sinking fund and principal payments on debentures.....	175.79	.....	.....	.....	.....
Depreciation.....	916.00	681.00	2,090.00	3,958.00	1,012.00
Other reserves.....	.....	.....	.....	.....	.....
Total operating costs and fixed charges.....	18,399.11	7,694.16	76,464.43	69,744.65	16,908.31
Net surplus.....	5,669.30	6,763.26	18,621.93	6,293.20	3,213.23
Net loss.....	.....	.....	.....	.....	.....
NUMBER OF CUSTOMERS					
Domestic service.....	300	242	982	947	264
Commercial light service.....	91	55	146	210	52
Power service.....	9	2	29	28	8
Total.....	400	299	1,157	1,185	324

“B”—Continued

Utilities for Year Ended December 31, 1950

Baden 692	*Bancroft 1,220	Barrie 12,904	†Barry's Bay 1,294	Bath 373	Beachville 656	Beamsville 1,684
\$	\$	\$	\$	\$	\$	\$
7,883.83	12,227.40	137,267.92	6,471.11	5,219.39	7,081.25	19,047.17
2,968.42	10,852.52	76,614.51	4,351.85	1,386.24	784.24	7,097.32
15,436.38	2,059.18	63,242.58	571.64	329.49	25,477.70	3,209.41
.....	.....	5,218.12	.....	.....	.....	.....
838.81	1,408.95	8,415.27	572.67	447.96	529.00	2,110.82
.....	.....	781.34	.....	.....	.....	.....
284.06	.....	2,841.02	.....	0.80	664.50	754.52
27,411.50	26,548.05	294,380.76	11,967.27	7,383.88	34,536.69	32,219.24
22,923.01	2,283.30	153,971.28	3,797.96	3,969.53	29,524.13	23,579.64
.....	1,517.84	3,859.83	.....	.....	.....	.....
.....	.....	2,111.88	.....	.....	.....	.....
449.88	1,886.93	17,177.72	105.47	483.81	1,193.50	1,059.94
78.85	84.58	1,286.89	61.66	13.03	317.78	8.00
4.07	199.97	2,380.25	39.12	27.26	10.37	208.58
38.10	.....	4,728.98	.....	.....	504.98	166.72
48.10	201.80	1,421.74	29.07	45.03	289.68	521.03
458.75	1,936.97	8,169.11	518.04	282.24	509.76	2,004.35
193.50	811.19	6,625.02	197.45	180.10	285.99	1,542.96
20.02	185.79	3,722.16	22.71	.....	13.33	17.24
53.53	.....	3,150.65	.....	.....	.....	.....
.....	1,973.59	.....	255.71	93.13	.....	.....
.....	10,125.00	.....	809.74	534.47	.....	.....
670.00	2,540.00	16,005.37	531.00	281.00	684.00	1,653.00
.....	.....	21.80	.....	.....	.....	.....
24,937.81	23,746.96	224,632.68	6,367.93	5,909.60	33,333.52	30,761.46
2,473.69	2,801.09	69,748.08	5,599.34	1,474.28	1,203.17	1,457.78
.....
189	311	3,333	233	89	203	507
35	103	542	54	21	27	90
3	4	83	2	1	3	9
227	418	3,958	289	111	233	606

*8 months, operation.

†10 months, operation.

STATEMENT

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Beaverton	Beeton	Belle River	Belleville	Blenheim
Population	841	576	1,358	19,220	2,439
EARNINGS	\$	\$	\$	\$	\$
Domestic service	12,755.52	5,686.52	11,579.66	202,296.08	15,643.83
Commercial light service	5,586.97	4,230.59	6,650.50	108,873.19	16,164.48
Commercial power service	4,267.95	1,375.07	613.60	82,584.01	12,597.20
Municipal power	597.42		2,053.50	6,511.15	1,918.87
Street lighting	1,796.48	1,523.33	1,878.00	16,049.87	4,756.00
Merchandise		2.51		5,742.22	
Miscellaneous	269.43	202.80	144.36	1,293.77	1,049.13
Total earnings	25,273.77	13,020.82	22,919.62	423,350.29	52,129.51
EXPENSES					
Power purchased	12,352.11	6,859.56	13,572.68	280,292.84	29,047.08
Substation operation				5,252.48	
Substation maintenance					
Distribution system, operation and maintenance	1,301.39	1,406.97	1,845.15	6,538.60	3,863.10
Line transformer maintenance	24.66	9.80	217.12	603.16	91.05
Meter maintenance	134.35	175.84	338.70	1,841.23	399.98
Consumers' premises expenses	365.83		47.00	2,843.08	220.02
Street lighting, operation and maintenance	305.74	354.03	362.33	2,493.46	2,038.45
Promotion of business				518.98	
Billing and collecting	1,718.12	603.16	1,393.66	12,010.49	2,296.78
General office, salaries and expenses	1,163.12	367.06	1,006.28	10,825.78	3,501.42
Undistributed expenses	38.33	53.92	56.36	3,315.61	12.84
Truck operation and maintenance				2,165.18	
Interest			43.62		88.80
Sinking fund and principal payments on debentures					
Depreciation	1,187.00	830.00	1,555.00	17,396.00	3,708.00
Other reserves					
Total operating costs and fixed charges	18,590.65	10,660.34	20,437.90	346,096.89	45,267.52
Net surplus	6,683.12	2,360.48	2,481.72	77,253.40	6,861.99
Net loss					
NUMBER OF CUSTOMERS					
Domestic service	413	176	470	5,209	720
Commercial light service	82	42	73	729	175
Power service	13	6	6	138	21
Total	508	224	549	6,076	916

“B”—Continued

Utilities for Year Ended December 31, 1950

Bloomfield 616	Blyth 625	Bobcaygeon 1,117	Bolton 818	Bothwell 691	Bowmanville 4,903	Bradford 1,547
\$	\$	\$	\$	\$	\$	\$
5,353.39	6,656.64	16,116.71	9,151.37	4,346.78	60,472.96	16,228.97
4,412.81	3,699.50	9,026.14	4,638.18	3,345.81	21,284.16	13,010.51
2,250.35	5,731.40	879.05	3,517.75	2,037.71	77,177.58	11,855.37
.....	.....	.....	432.07	142.68	1,549.21	678.64
858.00	1,382.64	2,827.37	1,166.52	1,668.32	5,241.34	1,521.00
.....	.....	.....	.....	.....	2,737.98	59.06
499.00	260.00	113.50	369.47	501.81	1,896.53	386.90
.....
13,373.55	17,730.18	28,962.77	19,275.36	12,043.11	170,359.76	43,740.45
.....
7,766.12	10,374.71	10,934.74	11,370.47	8,222.44	125,290.66	14,470.66
.....	.....	1,681.08	.....	.....	51.43	.....
.....
613.37	853.75	1,215.77	1,237.42	393.54	6,152.17	2,760.30
.....	.....	137.60	35.13	8.53	86.48	365.64
121.79	169.80	278.01	2.00	452.13	1,156.22	577.34
.....	12.20	.....	249.47	.....	2,030.82	12.14
.....
282.44	367.01	485.96	160.47	363.26	754.23	280.79
.....	.....	.....	.....	.....	204.08	.....
583.06	598.62	1,441.55	915.52	461.26	4,371.72	1,171.58
212.60	134.86	636.63	631.25	325.34	3,726.85	1,184.66
2.56	70.94	220.34	.....	2.95	2,813.26	118.82
.....	.....	441.70	.....	.....	711.53	649.36
.....	2.80	1,522.90	.....	7.56	.....	.....
.....	.....	3,360.34	.....	.....	.....	.....
.....
513.00	890.00	2,973.00	1,108.00	564.00	6,379.00	2,123.00
.....	.....	.....	44.00	.....	.....	.....
.....
10,094.94	13,474.69	25,329.62	15,753.73	10,801.01	153,728.45	23,714.29
.....
3,278.61	4,255.49	3,633.15	3,521.63	1,242.10	16,631.31	20,026.16
.....
.....
.....
209	224	440	240	217	1,584	400
49	58	96	57	65	201	102
8	7	3	14	10	31	23
.....
266	289	539	311	292	1,816	525

STATEMENT

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Braeside	Brampton	Brantford	Brantford Twp.(V.A.)	Brechin
Population.....	484	7,702	36,532	.....	266
EARNINGS	\$	\$	\$	\$	\$
Domestic service.....	2,663.24	89,645.94	325,064.70	144,243.80	2,324.97
Commercial light service.....	596.64	34,477.64	153,689.75	20,607.67	1,812.64
Commercial power service.....	6,927.59	34,719.87	493,131.57	19,408.95	859.60
Municipal power.....	.....	4,416.36	11,107.59	.....	.....
Street lighting.....	420.00	7,787.34	42,631.75	11,384.17	378.00
Merchandise.....	.....	.....	.....	.....	.....
Miscellaneous.....	11.53	2,290.45	8,326.98	719.85	118.85
Total earnings.....	10,619.00	173,337.60	1,033,952.34	196,364.44	5,494.06
EXPENSES					
Power purchased.....	7,161.95	126,107.98	818,053.74	99,029.10	1,789.09
Substation operation.....	.....	.....	14,289.12	733.59	.....
Substation maintenance.....	.....	487.40	4,194.02	.....	.....
Distribution system, operation and maintenance.....	201.25	3,453.44	16,206.31	7,714.32	260.30
Line transformer maintenance.....	16.92	239.89	5,384.72	1,014.39	31.74
Meter maintenance.....	13.88	1,819.38	12,443.93	2,701.48	60.65
Consumers' premises expenses.....	.....	486.70	26,114.98	14.70	5.75
Street lighting, operation and main- tenance.....	70.42	1,383.16	7,866.23	3,564.60	75.09
Promotion of business.....	.....	.....	205.51	.....	.....
Billing and collecting.....	308.91	3,895.67	19,052.09	5,283.73	334.61
General office, salaries and expenses	252.06	2,375.24	18,590.28	5,550.32	66.44
Undistributed expenses.....	.....	.....	755.10	1,394.77	1.44
Truck operation and maintenance.....	.....	.....	.....	3,007.52	.....
Interest.....	197.35	.....	56.60	5,858.70	6.20
Sinking fund and principal payments on debentures.....	245.16	.....	.....	7,304.21	102.77
Depreciation.....	186.00	5,738.00	29,459.00	10,237.00	146.00
Other reserves.....	.....	408.15	.....	.....	.....
Total operating costs and fixed charges.....	8,653.90	146,395.01	972,671.63	153,408.43	2,880.08
Net surplus.....	1,965.10	26,942.59	61,280.71	42,956.01	2,613.98
Net loss.....	.....	.....	.....	.....	.....
NUMBER OF CUSTOMERS					
Domestic service.....	105	2,188	9,645	2,986	61
Commercial light service.....	10	321	1,555	122	23
Power service.....	3	72	251	17	1
Total.....	118	2,581	11,451	3,125	85

“B”—Continued

Utilities for Year Ended December 31, 1950

Bridgeport	Brigden	Brighton	Brockville	Brussels	Burford	Burgessville
.....	424	1,999	11,845	814	847	222
\$	\$	\$	\$	\$	\$	\$
9,920.83	2,901.15	23,015.84	113,843.83	8,601.36	11,529.46	2,803.06
2,801.65	2,348.94	9,400.95	45,841.09	4,624.16	4,166.57	1,053.85
2,373.89	3,610.61	5,939.04	142,309.70	4,146.06	3,415.14	1,412.67
.....	166.99	.....	9,057.82	302.14	.....	.....
954.00	794.88	2,038.76	9,107.25	1,296.00	989.94	312.00
.....	.....	527.90	.....	.....	13.35	.....
96.97	213.42	326.43	8,310.42	286.86	133.62	101.42
16,147.34	10,035.99	41,248.92	328,470.11	19,256.58	20,248.08	5,683.00
.....
10,912.91	6,692.54	23,788.56	238,387.01	10,938.44	13,947.42	2,977.28
.....	.....	.....	12,593.35	.....	.....	.....
.....	.....	.....	68.16	.....	.....	.....
484.39	452.33	4,288.91	6,564.63	1,097.44	1,269.77	811.02
5.03	.....	166.69	69.01	8.15	27.30	128.27
233.62	12.50	1,118.21	2,823.17	108.97	101.50	38.27
11.18	.....	.....	.....	.....	.....	.....
202.89	193.43	345.14	1,880.32	199.58	273.60	39.78
.....
881.68	612.80	2,382.19	5,795.23	204.73	895.93	178.90
281.20	600.41	3,152.20	7,951.66	685.24	353.59	70.80
17.55	18.81	407.47	1,967.81	36.38	34.34	1.22
.....	.....	793.55	1,791.91	.....	.....	.....
.....	2.61	.....	.....	24.47	22.40	.....
.....
1,108.00	424.00	1,378.00	16,371.00	1,163.00	912.00	282.00
.....
14,138.45	9,009.43	37,820.92	296,263.26	14,466.40	17,837.85	4,527.54
2,008.89	1,026.56	3,428.00	32,206.85	4,790.18	2,410.23	1,155.46
.....
.....
272	137	611	3,412	290	278	67
26	47	135	505	69	52	21
5	6	11	88	9	6	3
303	190	757	4,005	368	336	91

STATEMENT

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	*Burks Falls 850	Burlington	Caledonia	Campbell- ville 225	Canning- ton 856
Population.....		5,952	1,645		
EARNINGS	\$	\$	\$	\$	\$
Domestic service.....	5,674.02	79,209.34	12,493.52	2,605.92	9,180.02
Commercial light service.....	6,288.08	30,898.73	9,338.08	666.07	4,032.93
Commercial power service.....	131.84	25,762.36	3,440.03	404.09	3,443.43
Municipal power.....	505.47	1,307.44	398.44		
Street lighting.....	1,379.70	3,115.99	2,738.98	300.00	1,410.66
Merchandise.....			32.77		16.73
Miscellaneous.....		1,977.30	130.68	115.74	221.95
Total earnings.....	13,979.11	142,271.16	28,572.50	4,091.82	18,305.72
EXPENSES					
Power purchased.....	6,426.24	78,996.43	17,327.64	2,784.29	8,957.47
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	222.95	6,415.22	1,702.29	109.68	1,025.42
Line transformer maintenance.....		1,867.44	151.20		7.84
Meter maintenance.....	97.79	1,733.98	525.76	23.86	317.85
Consumers' premises expenses.....		2,237.78	7.15		331.62
Street lighting, operation and main- tenance.....	97.31	1,162.28	589.52	42.92	156.45
Promotion of business.....					
Billing and collecting.....	533.79	7,118.28	1,390.43	120.00	1,040.46
General office, salaries and expenses	395.16	4,885.50	1,654.64	93.40	554.34
Undistributed expenses.....	30.00	544.52	128.49		5.18
Truck operation and maintenance.....		2,110.52	525.18		
Interest.....	1,226.46	3,737.06	140.24		
Sinking fund and principal payments on debentures.....	1,813.88	6,617.43	500.00		
Depreciation.....	870.00	6,406.00	1,545.00	141.00	781.00
Other reserves.....					
Total operating costs and fixed charges.....	11,713.58	123,832.44	26,187.54	3,315.15	13,177.63
Net surplus.....	2,265.53	18,438.72	2,384.96	776.67	5,128.09
Net loss.....					
NUMBER OF CUSTOMERS					
Domestic service.....	230	1,778	519	66	304
Commercial light service.....	66	210	117	12	74
Power service.....	2	26	10	1	12
Total.....	298	2,014	646	79	390

*10 months' operation.

“B”—Continued

Utilities for Year Ended December 31, 1950

Cardinal 1,739	Carleton Place 4,616	Cayuga 742	Chatham 21,223	Chatsworth 374	Chesley 1,707	Chesterville 1,165
\$	\$	\$	\$	\$	\$	\$
15,889.28	36,536.13	6,338.76	184,655.86	3,885.96	18,328.14	8,602.10
5,354.97	16,127.21	6,113.95	188,862.75	3,423.66	7,880.86	6,167.24
652.17	34,206.55	5,575.04	206,985.26	932.13	11,104.34	11,269.04
.....	1,676.78	417.08	11,344.99	.....	753.12	.....
1,271.00	5,245.08	1,682.16	34,736.25	682.00	2,548.00	1,305.00
.....	.....	27.57	6,365.67	.....	.....	.....
.....	1,945.17	292.96	3,782.24	77.57	379.59	288.74
23,167.42	95,736.92	20,447.52	636,733.02	9,001.32	40,994.05	27,632.12
.....
16,641.89	71,791.86	8,669.83	332,697.69	4,888.50	25,433.07	18,084.41
.....	213.19	.....	10,803.16	.....	.....	.....
.....	.....	.....	15,436.90	.....	.....	.....
968.68	5,401.10	866.47	33,573.56	323.47	1,247.62	1,925.32
60.00	53.06	190.01	5,911.08	.....	38.80	75.37
106.52	1,254.48	116.94	8,377.22	128.33	276.89	272.31
.....	335.50	.....	13,432.67	.....	38.21	18.78
91.50	955.58	386.34	10,176.54	71.39	509.50	83.40
.....	38.50	.....	17,631.79	.....	.....	.....
704.20	3,164.54	1,219.62	22,109.04	227.11	1,215.60	838.29
338.07	5,899.00	828.77	33,099.73	263.32	878.49	503.99
60.63	684.89	265.07	14,965.51	6.38	137.06	93.40
.....	844.49	501.66	12,898.06	.....	160.95	425.99
25.62	.....	3.68	8,896.81	.....	3.90	.....
1,146.32	.....	.....	31,779.93	.....	.....	.....
772.00	3,909.00	1,323.00	35,123.00	483.00	2,306.00	633.00
.....	.....	.....	1,000.00	.....	.....	.....
20,915.43	94,545.19	14,371.39	607,912.69	6,391.50	32,246.09	22,954.26
2,251.99	1,191.73	6,076.13	28,820.33	2,609.82	8,747.96	4,677.86
.....
448	1,270	211	5,557	129	538	298
64	216	74	1,009	45	98	72
4	20	12	161	1	26	6
516	1,506	297	6,727	175	662	376

STATEMENT

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Chippawa	Clifford	Clinton	Cobden	Cobourg
Population.....	1,584	451	2,405	771	7,517
EARNINGS	\$	\$	\$	\$	\$
Domestic service.....	13,622.77	5,308.79	28,830.50	6,248.41	77,416.47
Commercial light service.....	3,702.23	4,223.39	13,246.62	4,781.81	34,405.27
Commercial power service.....	337.33	1,059.92	8,769.80	4,458.36	50,762.62
Municipal power.....	716.31	.....	3,530.08	.....	1,921.93
Street lighting.....	3,399.34	992.00	3,190.25	853.50	7,007.74
Merchandise.....	.....	.....	398.97	.....	308.95
Miscellaneous.....	158.08	85.53	778.62	177.16	1,587.43
Total earnings.....	21,936.06	11,669.63	58,744.84	16,519.24	173,410.41
EXPENSES					
Power purchased.....	11,990.00	7,338.11	37,522.12	10,151.12	117,798.63
Substation operation.....	.....	.....	340.95	.....	.....
Substation maintenance.....	.....	.....	.....	.....	.....
Distribution system, operation and maintenance.....	952.66	274.55	1,984.40	582.82	7,379.43
Line transformer maintenance.....	298.27	89.65	187.92	51.00	1,577.05
Meter maintenance.....	565.03	70.05	455.39	137.00	2,369.78
Consumers' premises expenses.....	51.46	126.13	489.16	.....	354.57
Street lighting, operation and maintenance.....	928.49	183.87	550.28	29.46	1,465.10
Promotion of business.....	.....	.....	.....	.....	.....
Billing and collecting.....	1,169.28	417.50	2,109.25	808.49	7,754.03
General office, salaries and expenses.....	1,140.25	150.20	3,211.78	8.40	5,522.66
Undistributed expenses.....	274.01	19.99	196.40	.....	2,387.31
Truck operation and maintenance.....	764.27	.....	529.21	.....	2,601.29
Interest.....	.....	129.28	.....	.....	523.77
Sinking fund and principal payments on debentures.....	.....	421.16	.....	.....	6,738.14
Depreciation.....	1,507.00	655.00	3,470.00	405.00	8,482.00
Other reserves.....	.....	.....	.....	.....	.....
Total operating costs and fixed charges.....	19,640.72	9,875.49	51,046.86	12,173.29	164,953.76
Net surplus.....	2,295.34	1,794.14	7,697.98	4,345.95	8,456.65
Net loss.....	.....	.....	.....	.....	.....
NUMBER OF CUSTOMERS					
Domestic service.....	466	150	737	232	1,968
Commercial light service.....	55	43	154	64	274
Power service.....	3	2	23	6	61
Total.....	524	195	914	302	2,303

“B”—Continued

Utilities for Year Ended December 31, 1950

Colborne 1,114	Coldwater 640	Collingwood 7,305	Comber 550	Cookstown 453	Cottam 504	Courtright 505
\$	\$	\$	\$	\$	\$	\$
13,389.53	6,005.02	59,990.30	3,412.62	4,424.49	4,716.62	2,875.34
6,860.46	3,499.60	26,800.43	3,534.56	2,549.16	2,487.52	1,714.99
1,517.43	2,790.81	48,438.70	3,854.39	1,325.74	1,076.39	
227.59		1,919.42				577.04
1,524.00	1,100.00	5,896.08	1,167.94	930.00	570.00	630.00
700.81	3.82	139.02				
210.00	190.52	844.47	177.79	215.90	54.16	139.25
24,429.82	13,589.77	144,028.42	12,147.30	9,445.29	8,904.69	5,936.62
12,138.59	4,126.70	94,984.98	7,498.88	3,302.70	4,623.88	3,803.61
		403.12				
1,922.04	690.23	7,256.06	1,110.52	449.77	430.99	89.59
117.21		515.48	93.47		72.73	96.33
213.47	102.90	1,278.69	265.11	182.02	177.00	3.00
271.67	4.16	26.44				
359.88	135.81	724.85	233.86	144.27	145.42	106.35
						1.50
1,407.28	675.06	3,493.65	568.87	285.19	664.07	223.89
1,010.67	400.15	2,731.48	719.89	75.03	244.99	54.59
217.11	64.46	747.70	25.90	10.85	5.23	6.20
812.25		1,562.88				
128.03			45.13			19.13
1,035.88						
821.00	661.00	6,880.00	959.00	840.00	427.00	427.00
20,455.08	6,860.47	120,605.33	11,520.63	5,289.83	6,791.31	4,831.19
3,974.74	6,729.30	23,423.09	626.67	4,155.46	2,113.38	1,105.43
358	177	2,072	155	148	168	138
83	51	344	56	40	32	27
5	3	63	8	3	5	1
446	231	2,479	219	191	205	166

STATEMENT

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Creemore	Dashwood	Delaware	Delhi	Deseronto
Population.....	738	366	332	2,506	1,473
EARNINGS	\$	\$	\$	\$	\$
Domestic service.....	6,723.64	5,330.58	4,007.50	25,230.73	15,832.91
Commercial light service.....	3,697.85	2,045.31	2,035.85	21,972.09	5,466.63
Commercial power service.....	1,243.45	1,275.48		7,920.72	5,696.77
Municipal power.....				1,712.76	1,383.95
Street lighting.....	768.00	679.33	312.59	3,950.03	2,316.48
Merchandise.....				925.82	735.60
Miscellaneous.....	36.25	155.85	91.53	1,059.11	149.63
Total earnings.....	12,469.19	9,486.55	6,447.47	62,771.26	31,581.97
EXPENSES					
Power purchased.....	5,212.15	7,419.07	4,441.39	29,458.34	15,341.35
Substation operation.....					90.00
Substation maintenance.....					
Distribution system, operation and maintenance.....	524.11	546.82	119.64	3,348.15	1,930.00
Line transformer maintenance.....	41.34	21.75	40.62	358.06	72.15
Meter maintenance.....	94.37	73.00	41.31	1,833.04	531.05
Consumers' premises expenses.....	35.04		104.69	666.48	
Street lighting, operation and maintenance.....	204.21	103.50	62.06	559.32	507.13
Promotion of business.....					
Billing and collecting.....	559.30	216.90	496.13	2,046.91	1,174.88
General office, salaries and expenses.....	139.18	309.72	146.10	2,335.21	1,724.57
Undistributed expenses.....	13.16	1.75	1.27	824.96	242.50
Truck operation and maintenance.....					655.53
Interest.....			8.88	1,868.67	
Sinking fund and principal payments on debentures.....				4,289.18	
Depreciation.....	670.00	442.00	282.00	2,773.00	945.00
Other reserves.....					
Total operating costs and fixed charges.....	7,492.86	9,134.51	5,744.09	50,361.32	23,214.16
Net surplus.....	4,976.33	352.04	703.38	12,409.94	8,367.81
Net loss.....					
NUMBER OF CUSTOMERS					
Domestic service.....	218	125	90	803	491
Commercial light service.....	56	29	19	218	60
Power service.....	3	3		25	16
Total.....	277	157	109	1,046	567

“B”—Continued

Utilities for Year Ended December 31, 1950

Dorchester 483	Drayton 614	Dresden 2,050	Drumbo 334	Dublin 201	Dundalk 804	Dundas 6,547
\$	\$	\$	\$	\$	\$	\$
5,341.50	6,564.10	13,299.60	4,498.37	2,904.49	6,594.35	53,400.80
1,778.08	3,921.33	12,844.04	2,599.94	1,896.27	5,329.66	28,139.84
1,299.43	2,055.51	13,238.89	1,389.99	1,950.54	3,711.42	57,249.13
		1,254.69				1,017.82
1,072.50	960.00	2,752.07	614.25	583.00	1,199.00	7,096.73
			2.22			
155.00	143.44	1,869.15	268.14	53.94	448.56	946.70
9,646.51	13,644.38	45,258.44	9,372.91	7,388.24	17,282.99	147,851.02
5,242.39	8,952.92	27,911.84	5,776.04	4,171.60	10,247.69	109,083.85
						3,089.42
803.83	1,355.72	4,854.54	277.74	127.14	1,750.93	6,218.17
37.15	104.39	544.31		9.30		1,513.72
11.52	56.40	765.06	15.02	4.02	299.83	1,755.70
225.54	61.84	4.33				96.40
190.51	350.07	713.67	69.02	204.09	310.61	1,357.89
		50.40				
165.24	502.10	1,669.54	642.63	319.36	1,008.42	2,608.01
57.89	275.28	2,343.89	102.28	232.72	288.02	4,002.86
13.91	17.58	343.98	1.91	6.59	65.21	947.59
		1,404.53				2,203.19
	10.66	15.27	3.00			18.88
739.00	497.00	1,757.00	380.00	359.00	486.00	4,653.00
7,486.98	12,183.96	42,378.36	7,267.64	5,433.82	14,456.71	137,548.68
2,159.53	1,460.42	2,880.08	2,105.27	1,954.42	2,826.28	10,302.34
186	196	590	117	71	247	1,971
33	51	160	38	33	80	244
3	6	20	2	2	8	49
222	253	770	157	106	335	2,264

STATEMENT

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Dunnville	Durham	Dutton	East York Twp.
Population.....	4,440	2,294	863	60,155
EARNINGS	\$	\$	\$	\$
Domestic service.....	23,880.49	16,114.67	4,937.49	616,002.88
Commercial light service.....	23,846.04	10,583.74	3,762.87	69,993.67
Commercial power service.....	31,224.71	6,209.91	4,464.67	105,116.53
Municipal power.....	2,913.57	925.19		5,982.30
Street lighting.....	5,065.06	1,739.00	1,106.84	39,200.14
Merchandise.....				
Miscellaneous.....	889.21	217.64	273.11	667.26
Total earnings.....	87,819.08	35,790.15	14,544.98	836,962.78
EXPENSES				
Power purchased.....	59,568.83	16,345.00	9,468.02	537,284.57
Substation operation.....	1,664.63			
Substation maintenance.....				5,745.00
Distribution system, operation and maintenance.....	5,469.84	3,336.36	395.55	14,894.28
Line transformer maintenance.....	173.72	192.56	27.63	5,270.67
Meter maintenance.....	409.61	598.83	353.08	6,715.67
Consumers' premises expenses.....	313.85	610.00	35.38	17,965.59
Street lighting, operation and main- tenance.....	2,687.80	402.07	218.24	10,100.32
Promotion of business.....				
Billing and collecting.....	2,321.68	1,259.73	1,072.59	32,347.66
General office, salaries and expenses..	2,750.39	1,344.59	211.62	25,813.56
Undistributed expenses.....	1,524.15	156.08	24.48	
Truck operation and maintenance.....	1,327.48	632.67		
Interest.....		3.95	2.65	3,891.58
Sinking fund and principal payments on debentures.....				11,000.00
Depreciation.....	5,669.00	1,916.00	619.00	40,496.00
Other reserves.....				1,978.00
Total operating costs and fixed charges.....	83,880.98	26,797.84	12,428.24	713,502.90
Net surplus.....	3,938.10	8,992.31	2,116.74	123,459.88
Net loss.....				
NUMBER OF CUSTOMERS				
Domestic service.....	1,252	551	249	16,152
Commercial light service.....	278	130	65	698
Power service.....	32	18	10	91
Total.....	1,562	699	324	16,941

“B”—Continued

Utilities for Year Ended December 31, 1950

Elmira 2,510	Elmvale 785	Elmwood	Elora 1,321	Embro 446	Erieau 404	Erie Beach 59
\$	\$	\$	\$	\$	\$	\$
28,480.07	7,001.86	2,322.29	14,642.00	6,514.40	8,104.05	2,267.35
17,659.75	4,489.46	1,532.90	6,474.39	1,965.68	3,450.45	312.14
36,855.21	3,397.28	3,862.58	9,311.67	2,931.49	4,890.47	.....
4,012.36	309.88	.....	282.71	.....	.....	.....
2,396.58	1,198.97	593.00	1,925.75	648.00	825.00	210.00
.....	.....	.....	154.68	.....	.....	.....
1,608.40	120.13	178.97	310.59	67.75	53.60	32.45
91,012.37	16,517.58	8,489.74	33,101.79	12,127.32	17,323.57	2,821.94
51,962.26	8,017.88	4,350.87	23,440.44	7,263.92	8,844.42	1,330.01
632.26	.....	.....	.....	.....	.....	.....
5,237.06	817.42	262.89	2,917.29	632.53	730.28	349.19
388.47	52.20	.....	43.60	12.49	76.37	16.53
396.45	207.74	107.52	177.15	21.24	241.90	94.16
54.97	.....	.....	.....	309.89	72.01	17.62
303.04	166.92	14.30	511.94	238.99	285.50	62.72
.....	.....	.....	.....	9.46	.....	.....
1,950.26	608.94	243.60	1,288.27	690.82	665.61	249.55
1,903.56	293.56	385.75	524.95	237.87	646.10	212.14
862.82	9.43	.....	472.23	16.23	4.69	0.61
329.16	.....	.....	1,002.86	.....	.....	.....
58.32	.....	1.82	5.96	.....	.....	29.77
1,146.32	.....	.....	.....	.....	.....	.....
5,548.00	997.00	286.00	1,141.00	508.00	978.00	179.00
70,772.95	11,171.09	5,652.75	31,525.69	9,941.44	12,544.88	2,541.30
20,239.42	5,346.49	2,836.99	1,576.10	2,185.88	4,778.69	280.64
692	230	97	407	152	264	118
143	66	22	73	39	26	5
28	10	3	8	4	4	.....
863	306	122	488	195	294	123

STATEMENT

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	*Erin	Essex	Etobicoke Twp. (V.A.)	Exeter
Population	625	2,758	.....	2,624
EARNINGS	\$	\$	\$	\$
Domestic service.....	5,064.35	20,881.18	591,422.96	34,392.18
Commercial light service.....	3,196.49	17,812.45	109,193.83	16,531.81
Commercial power service.....	544.87	11,750.71	145,675.96	8,832.24
Municipal power.....	.....	2,087.07	13,834.28	787.45
Street lighting.....	506.31	3,142.76	35,513.64	3,557.16
Merchandise.....	.....	.....	.....	692.21
Miscellaneous.....	.....	1,089.56	2,297.97	1,186.72
Total earnings.....	9,312.02	56,763.73	897,938.64	65,979.77
EXPENSES				
Power purchased.....	4,453.75	31,668.83	607,972.46	40,912.22
Substation operation.....	.....	.....	.....	.....
Substation maintenance.....	.....	.....	1,096.84	.....
Distribution system, operation and maintenance.....	122.59	2,697.52	28,309.52	10,365.89
Line transformer maintenance.....	.....	671.75	7,126.34	299.54
Meter maintenance.....	60.10	487.94	6,200.84	411.29
Consumers' premises expenses.....	.....	496.35	27,390.08	978.64
Street lighting, operation and main- tenance.....	41.56	533.78	5,125.16	825.00
Promotion of business.....	.....	.....	.....	.....
Billing and collecting.....	429.97	1,534.93	42,698.22	2,172.49
General office, salaries and expenses..	190.11	4,409.72	28,352.57	2,891.37
Undistributed expenses.....	.....	977.19	.....	118.55
Truck operation and maintenance.....	.....	927.88	.....	970.84
Interest.....	19.26	379.50	20,842.30	.....
Sinking fund and principal payments on debentures.....	.....	1,184.52	25,155.60	.....
Depreciation.....	417.00	3,651.00	39,642.00	3,332.00
Other reserves.....	.....	.....	500.00	.....
Total operating costs and fixed charges.....	5,734.34	49,620.91	840,411.93	63,277.83
Net surplus.....	3,577.68	7,142.82	57,526.71	2,701.94
Net loss.....	.....	.....	.....	.....
NUMBER OF CUSTOMERS				
Domestic service.....	234	748	13,643	784
Commercial light service.....	61	154	828	160
Power service.....	2	25	149	22
Total.....	297	927	14,620	966

*7 months' operation.

“B”—Continued

Utilities for Year Ended December 31, 1950

Fergus 3,291	Finch 388	Flesherton 468	Fonthill 1,386	Forest 1,793	Forest Hill 16,191	Frankford 1,323
\$	\$	\$	\$	\$	\$	\$
38,451.12	4,090.98	4,002.33	15,661.37	23,191.08	265,986.02	13,579.00
15,182.70	3,489.75	2,969.40	3,871.68	12,900.04	59,811.56	6,709.93
29,805.92	2,412.84	1,286.92	1,405.44	6,418.72	6,081.63	1,335.75
1,360.86			191.97	1,367.83	454.24	
4,335.12	507.00	730.00	1,998.85	3,158.00	13,027.68	1,269.28
11.63				10.62		
438.88	208.96	301.05		1,116.26	7,919.68	3.00
89,586.23	10,709.53	9,289.70	23,129.31	48,162.55	353,280.81	22,896.96
66,885.63	4,705.73	3,457.23	12,981.03	29,040.82	237,435.51	9,100.25
1,344.37					961.86	
4,428.40	409.21	546.44	2,100.82	5,173.37	10,559.51	801.09
663.89	29.51		16.74	159.01	126.81	6.55
839.27	62.30	95.95	234.72	206.21	4,189.40	81.58
30.95			698.38	1,630.19	22,386.91	
682.54	132.80	92.91	269.40	793.69	2,196.33	44.64
1,743.66	434.76	520.56	944.47	1,462.69	8,388.84	1,318.97
1,911.66	176.00	117.00	818.97	2,697.16	15,159.18	534.66
265.25		1.87	18.59	232.04		
561.95				164.73		
	5.43		119.16		5,283.17	569.60
					15,343.57	2,000.00
3,912.00	513.00	578.00	1,216.00	1,597.00	12,819.00	904.00
83,269.57	6,468.74	5,409.96	19,418.28	43,156.91	334,850.09	15,361.34
6,316.66	4,240.79	3,879.74	3,711.03	5,005.64	18,430.72	7,535.62
930	134	148	399	578	4,332	354
130	37	52	49	136	390	68
18	5	2	6	21	42	7
1,078	176	202	454	735	4,764	429

STATEMENT

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Galt	Georgetown	Glencoe	Goderich
Population.....	18,306	3,406	922	4,991
EARNINGS	\$	\$	\$	\$
Domestic service.....	179,080.53	43,369.09	6,582.74	65,888.04
Commercial light service.....	90,395.61	15,909.16	9,074.34	32,760.23
Commercial power service.....	225,401.10	45,640.31	2,711.90	27,572.63
Municipal power.....	7,762.08	2,801.74	1,201.94	3,819.35
Street lighting.....	27,848.00	3,473.26	2,404.56	7,042.75
Merchandise.....	16,405.44			1,454.19
Miscellaneous.....	3,554.17	474.81	1,193.03	180.48
Total earnings.....	550,446.93	111,668.37	23,168.51	138,717.67
EXPENSES				
Power purchased.....	432,060.58	88,229.99	12,511.01	80,899.65
Substation operation.....	9,438.02			1,337.21
Substation maintenance.....	585.04	880.53		
Distribution system, operation and maintenance.....	14,597.33	7,183.68	1,437.86	9,049.36
Line transformer maintenance.....	873.69	957.86	51.84	104.81
Meter maintenance.....	3,298.98	1,239.12	137.56	1,101.37
Consumers' premises expenses.....	1,700.00	2,125.53	41.19	831.09
Street lighting, operation and maintenance.....	3,819.91	1,218.51	288.59	1,654.96
Promotion of business.....	114.99			
Billing and collecting.....	6,416.36	3,956.78	1,156.87	4,822.49
General office, salaries and expenses.....	17,909.70	2,878.16	951.23	4,257.70
Undistributed expenses.....	8,170.87		93.04	2,199.10
Truck operation and maintenance.....	2,268.28		512.92	1,930.23
Interest.....	227.95			401.61
Sinking fund and principal payments on debentures.....				2,581.34
Depreciation.....	27,040.00	4,879.00	1,106.00	6,192.00
Other reserves.....				
Total operating costs and fixed charges.....	528,521.70	113,549.16	18,288.11	117,362.92
Net surplus.....	21,925.23		4,880.40	21,354.75
Net loss.....		1,880.79		
NUMBER OF CUSTOMERS				
Domestic service.....	5,270	1,157	294	1,585
Commercial light service.....	603	166	93	287
Power service.....	161	33	11	44
Total.....	6,034	1,356	398	1,916

"B"—Continued

Utilities for Year Ended December 31, 1950

Grand Valley 591	Granton 257	Gravenhurst 3,365	Grimsby 2,574	Guelph 26,617	Hagersville 1,696	Hamilton 196,246
\$	\$	\$	\$	\$	\$	\$
5,674.29	3,369.58	28,102.94	22,583.67	250,964.42	11,776.73	1,661,396.42
3,675.35	1,159.92	15,765.00	15,483.00	98,916.99	10,310.60	824,134.54
3,973.23	209.65	20,030.47	10,324.14	224,258.06	28,354.74	3,801,686.72
.....	.....	1,206.92	2,553.93	20,129.58	761.62	112,398.68
932.00	444.00	2,797.63	3,510.90	28,555.77	2,817.34	164,749.08
.....	.....	39.57	.....	.....	.....	20,636.92
357.79	77.25	639.48	1,091.93	352.30	1,353.66	132,747.85
.....
14,612.66	5,260.40	68,582.01	55,547.57	623,177.12	55,374.69	6,717,750.21
.....
9,522.75	3,613.95	46,127.72	37,268.43	491,885.09	42,008.98	*4,924,568.02
.....	.....	.....	.....	7,381.94	.....	150,812.89
.....	.....	.....	.....	.....	74.47	16,465.82
925.82	182.89	4,502.51	2,758.28	22,878.26	5,434.84	134,087.59
.....	84.73	71.70	.....	2,750.81	384.41	20,685.24
145.35	12.70	559.53	81.36	7,914.17	650.83	79,811.02
.....	12.66	8.93	238.07	1,996.97	8.27	52,597.66
.....
161.14	117.89	427.78	866.63	5,354.15	383.89	39,243.19
.....	.....	.....	.....	.....	.....	22,339.61
818.40	416.63	2,516.29	2,699.48	8,681.56	1,611.05	179,267.45
276.46	119.96	2,085.17	1,958.78	14,066.86	1,275.16	125,373.97
17.75	1.06	440.34	40.03	6,730.08	762.55	18,423.72
.....	.....	646.54	.....	.....	682.44	.....
1.47	43.93	.....	.....	3,000.00	.....	1,583.33
.....	.....	.....	.....	5,000.00	.....	131,666.67
.....
675.00	329.65	3,794.00	2,763.00	34,007.00	1,335.00	255,137.95
.....
.....
12,544.14	4,936.05	61,180.51	48,674.06	611,646.89	54,611.89	6,152,064.13
.....
2,068.52	324.35	7,401.50	6,873.51	11,530.23	762.80	565,686.08
.....
.....
.....
222	89	950	822	6,847	484	52,159
63	28	162	158	851	140	6,540
11	1	22	20	176	23	1,271
.....
296	118	1,134	1,000	7,874	647	59,970

*Includes 1950 cost adjustment.

STATEMENT

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Hanover	Harriston	Harrow	Hastings	Havelock
Population	3,766	1,536	1,503	800	1,246
EARNINGS	\$	\$	\$	\$	\$
Domestic service	42,525.36	14,470.07	23,689.04	8,218.46	10,379.08
Commercial light service	14,350.26	9,132.29	11,899.79	5,637.55	5,549.39
Commercial power service	38,489.52	12,457.65	7,929.15	481.44	1,984.11
Municipal power	285.59	413.56			
Street lighting	2,957.00	1,584.50	1,722.69	1,695.66	1,609.80
Merchandise		98.63			
Miscellaneous	2,575.06	642.04	426.31	211.86	321.51
Total earnings	101,182.79	38,798.74	45,666.98	16,244.97	19,843.89
EXPENSES					
Power purchased	62,730.14	27,407.65	30,127.18	5,472.48	8,149.05
Substation operation					
Substation maintenance					
Distribution system, operation and maintenance	4,550.98	1,666.23	1,730.60	1,027.38	1,455.85
Line transformer maintenance	128.46	100.16	56.25	10.50	
Meter maintenance	678.75	197.42	541.50	201.32	204.67
Consumers' premises expenses		2,711.58	84.70		4.35
Street lighting, operation and maintenance	458.18	424.50	377.46	529.14	503.44
Promotion of business			10.00		
Billing and collecting	2,423.38	1,733.01	3,082.83	1,572.42	1,581.31
General office, salaries and expenses	3,401.38	832.75	133.60	600.81	1,020.35
Undistributed expenses	1,359.28	155.37	7.91	3.35	9.73
Truck operation and maintenance	2,303.80	218.37			
Interest				178.45	
Sinking fund and principal payments on debentures				1,578.82	
Depreciation	4,003.00	1,954.00	1,230.00	1,125.00	818.00
Other reserves					
Total operating costs and fixed charges	82,037.35	37,401.04	37,382.03	12,299.67	13,746.75
Net surplus	19,145.44	1,397.70	8,284.95	3,945.30	6,097.14
Net loss					
NUMBER OF CUSTOMERS					
Domestic service	1,072	436	433	314	332
Commercial light service	174	116	111	65	66
Power service	35	15	8	4	2
Total	1,281	567	552	383	400

"B"—Continued

Utilities for Year Ended December 31, 1950

Hensall 666	Hespeler 3,696	Highgate 355	Holstein 176	Humber- stone 3,722	Huntsville 3,340	Ingersoll 6,431
\$	\$	\$	\$	\$	\$	\$
8,016.86	37,152.47	2,488.82	1,602.61	20,243.33	29,659.42	59,059.24
4,120.40	13,855.36	1,278.23	530.88	10,024.24	25,854.41	32,120.28
5,947.70	104,122.99	1,966.14	740.27	9,262.63	19,721.84	69,609.85
373.92	2,585.61				1,616.15	6,874.36
1,128.00	6,092.00	640.29	75.00	2,375.22	3,556.00	5,961.94
					99.63	
313.08	366.51	201.36	147.92		416.65	1,080.00
19,899.96	164,174.94	6,574.84	3,096.68	41,905.42	80,924.10	174,705.67
11,638.61	112,975.69	3,927.16	1,462.99	24,898.79	54,022.95	127,699.22
	872.51					362.00
745.39	5,989.16	325.82	75.55	2,843.56	7,677.30	9,575.76
89.17	471.45	2.15		215.89	96.90	180.28
15.45	1,427.72	4.10	3.50	611.61	1,470.23	378.05
	91.64			6.00	47.30	1,271.04
211.65	375.74	146.93	39.00	658.25	1,062.35	991.50
						205.31
341.91	2,034.20	306.09	182.18	2,382.37	2,367.73	5,039.89
781.63	2,385.50	156.59	312.19	1,523.64	2,838.63	5,873.92
97.88	1,244.29	7.79		335.42	979.38	1,389.23
	1,208.53			825.08	600.59	3,113.66
	139.18	4.06		4.21		319.51
	1,910.54					
806.00	5,128.00	413.00	128.00	2,595.00	2,784.00	6,779.00
14,727.69	136,254.15	5,293.69	2,203.41	36,899.82	73,947.36	163,178.37
5,172.27	27,920.79	1,281.15	893.27	5,005.60	6,976.74	11,527.30
230	999	115	70	940	844	1,806
61	114	30	17	132	175	260
18	34	7	2	15	25	51
309	1,147	152	89	1,087	1,044	2,117

STATEMENT

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Iroquois	Jarvis	Kemptville	Kincardine
Population.....	1,036	644	1,542	2,790
EARNINGS	\$	\$	\$	\$
Domestic service.....	12,206.19	4,039.67	16,468.94	27,274.57
Commercial light service.....	4,549.64	3,541.14	8,959.96	14,841.97
Commercial power service.....	1,058.25	4,058.07	7,413.30	21,535.47
Municipal power.....	1,058.67		1,496.88	1,488.11
Street lighting.....	1,503.50	858.00	1,877.50	5,044.03
Merchandise.....			19.55	
Miscellaneous.....	515.97	360.31	392.50	869.70
Total earnings.....	20,892.22	12,857.19	36,628.63	71,053.85
EXPENSES				
Power purchased.....	11,818.58	8,515.78	21,521.81	34,510.69
Substation operation.....				1,406.93
Substation maintenance.....				
Distribution system, operation and maintenance.....	982.02	308.05	3,526.87	2,473.39
Line transformer maintenance.....	332.06		128.83	22.45
Meter maintenance.....	305.15	26.15	806.51	1,738.43
Consumers' premises expenses.....	7.88		28.10	1,251.72
Street lighting, operation and maintenance.....	318.15	63.62	190.67	833.44
Promotion of business.....				
Billing and collecting.....	1,307.83	734.49	1,649.99	1,734.36
General office, salaries and expenses..	1,459.43	76.77	856.95	1,466.34
Undistributed expenses.....	71.35	3.53	343.51	657.56
Truck operation and maintenance.....	553.72		559.66	1,009.33
Interest.....		1.37		
Sinking fund and principal payments on debentures.....				
Depreciation.....	683.00	709.00	1,865.00	3,856.00
Other reserves.....				
Total operating costs and fixed charges.....	17,839.17	10,438.76	31,477.90	50,960.64
Net surplus.....	3,053.05	2,418.43	5,150.73	20,093.21
Net loss.....				
NUMBER OF CUSTOMERS				
Domestic service.....	348	173	460	863
Commercial light service.....	64	49	95	150
Power service.....	6	5	13	23
Total.....	418	227	568	1,036

“B”—Continued

Utilities for Year Ended December 31, 1950

Kingston	Kingsville	Kirkfield	Kitchener	Lakefield	Lambeth	Lanark
32,924	2,560	165	43,084	1,740	867	748
\$	\$	\$	\$	\$	\$	\$
386,439.94	25,009.42	1,635.22	477,051.51	14,992.51	9,473.34	5,822.91
215,554.34	16,318.10	1,811.97	251,040.60	10,881.16	1,897.89	4,652.66
217,659.95	6,519.93		699,056.66	11,847.23	857.93	1,383.99
17,307.41	1,038.97		52,040.20		563.30	
27,783.54	3,175.22	432.00	50,926.71	2,005.27	793.55	747.50
13,778.58	1,894.86	90.00	3,486.07	830.22	177.65	9.49
878,523.76	53,956.50	3,969.19	1,533,601.75	40,556.39	13,763.66	12,616.55
610,608.63	32,881.54	2,014.02	1,066,466.35	24,860.39	8,505.16	7,020.26
12,424.95			19,416.30			
5,724.29			11,438.88			
27,753.41	4,296.37	494.97	40,017.06	1,794.48	727.47	342.75
748.34	397.43		6,821.02		88.50	4.00
9,843.05	830.46	14.76	15,744.60	567.39	14.18	100.24
	18.67		4,743.25		12.96	
4,635.28	1,059.47	112.35	16,054.64	241.74	422.26	188.37
588.01	20.00		199.87			
21,304.22	2,978.84	161.51	24,042.86	2,051.57	999.01	588.07
44,640.60	2,619.23	71.65	36,473.32	1,670.39	87.50	129.17
40,490.18	1,017.05	0.75	1,088.41	129.60	2.77	
8,905.90	548.48			834.14		
	651.73		4,342.86	156.57	97.96	
	1,818.64		25,600.00	2,408.79		
32,895.58	2,105.00	239.00	73,892.00	1,257.00	904.00	632.00
820,562.44	51,242.91	3,109.01	1,346,341.42	35,972.06	11,861.77	9,004.86
57,961.32	2,713.59	860.18	187,260.33	4,584.33	1,901.89	3,611.69
9,805	818	50	11,075	481	261	233
1,265	196	26	1,349	89	34	51
207	24		363	11	7	2
11,277	1,038	76	12,787	581	302	286

STATEMENT

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Lancaster	La Salle	Leaming- ton	Lindsay	Listowel
Population.....	534	1,580	7,525	9,349	3,255
EARNINGS	\$	\$	\$	\$	\$
Domestic service.....	3,284.50	25,498.09	52,522.65	94,806.09	37,692.18
Commercial light service.....	2,066.81	6,127.77	32,701.87	55,998.35	24,035.80
Commercial power service.....		778.79	41,931.95	55,778.00	23,159.92
Municipal power.....			3,146.29	3,490.34	1,673.79
Street lighting.....	513.00	1,154.75	9,294.41	8,244.48	5,621.83
Merchandise.....				662.88	175.59
Miscellaneous.....	66.84	424.53	554.39	850.90	530.90
Total earnings.....	5,931.15	33,983.93	140,151.56	219,831.04	92,890.01
EXPENSES					
Power purchased.....	3,721.64	21,300.46	99,719.61	158,888.14	62,443.16
Substation operation.....			1,005.12		690.07
Substation maintenance.....					
Distribution system, operation and maintenance.....	144.18	828.42	6,344.76	8,220.55	3,334.46
Line transformer maintenance.....		229.02	714.91	1,920.96	263.19
Meter maintenance.....	35.42	495.77	400.34	2,338.41	572.56
Consumers' premises expenses.....		213.71	8.67	2,219.20	408.11
Street lighting, operation and main- tenance.....	15.39	222.29	2,956.44	949.99	982.75
Promotion of business.....			11.50		
Billing and collecting.....	299.64	1,174.77	6,323.25	7,651.24	2,622.08
General office, salaries and expenses	226.39	732.63	4,545.06	13,117.90	2,043.63
Undistributed expenses.....		63.00	1,231.06	4,307.27	647.68
Truck operation and maintenance.....			1,305.62	2,275.91	464.81
Interest.....		427.70	2.63	18.37	9.35
Sinking fund and principal payments on debentures.....					
Depreciation.....	295.00	1,939.00	7,860.00	9,415.00	3,460.00
Other reserves.....			100.00		
Total operating costs and fixed charges.....	4,737.66	27,626.77	132,528.97	211,322.94	77,941.85
Net surplus.....	1,193.49	6,357.16	7,622.59	8,508.10	14,948.16
Net loss.....					
NUMBER OF CUSTOMERS					
Domestic service.....	137	471	2,088	2,678	986
Commercial light service.....	32	29	382	422	187
Power service.....		3	52	77	34
Total.....	169	503	2,522	3,177	1,207

“B”—Continued

Utilities for Year Ended December 31, 1950

London 94,027	London Twp. (V.A.)	Long Branch 8,044	Lucan 915	Lucknow 891	Lynden 434	Madoc 1,624
\$	\$	\$	\$	\$	\$	\$
872,793.44	30,975.25	73,368.02	11,163.15	8,758.09	4,803.44	11,507.24
371,330.81	3,773.49	18,071.50	4,069.51	5,124.35	981.67	8,270.95
628,699.53	1,557.10	28,565.29	1,194.49	8,208.38	1,681.18	8,887.02
104,228.65		2,569.44		458.92		
52,266.73	1,397.17	7,747.85	1,630.52	2,165.54	480.00	2,318.32
16,701.03						
43,146.67	190.71	1,222.59	247.56	730.72	114.66	101.30
2,089,166.86	37,893.72	131,544.69	18,305.23	25,446.00	8,060.95	31,084.83
1,467,705.45	26,475.62	89,576.39	11,285.45	12,328.91	5,410.23	13,698.11
66,049.45						
54,440.60	1,434.39	4,606.48	863.06	2,285.76	476.18	1,964.70
12,321.71	503.74	599.79	34.85		10.89	14.75
19,415.43	87.50	1,198.85	76.54	141.51	18.22	487.05
134,139.20	501.23	550.10	785.20			
16,904.56	771.52	1,486.14	340.60	306.99	164.47	485.50
1,843.06						
45,971.30	2,716.98	10,544.20	898.70	1,353.01	274.45	1,387.77
88,288.25	263.65	7,042.09	443.64	922.13	262.61	613.08
1,577.70	6.82		21.99	103.86	35.25	35.00
3,771.52				380.29		
			27.43	8.38	1.00	
111,536.00	1,982.00	5,233.00	685.00	1,185.00	521.00	994.00
15,149.49		250.00				
2,039,113.72	34,743.45	121,087.04	15,462.46	19,015.84	7,174.30	19,679.96
50,053.14	3,150.27	10,457.65	2,842.77	6,430.16	886.65	11,404.87
24,627	724	2,224	243	334	124	389
2,370	19	224	60	102	16	108
420	4	24	3	11	3	8
27,417	747	2,472	306	447	143	505

STATEMENT

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Markdale	Markham	Marmora	Martin- town 125	Maxville
Population.....	966	1,562	1,081	125	754
EARNINGS	\$	\$	\$	\$	\$
Domestic service.....	6,671.06	17,085.77	7,658.88	1,929.13	6,353.54
Commercial light service.....	5,444.64	6,578.83	5,085.47	1,630.93	4,063.29
Commercial power service.....	3,378.86	4,270.24	795.64	53.71	.....
Municipal power.....	369.14	387.30	.....	.....	.....
Street lighting.....	1,296.25	1,673.00	1,517.00	253.00	1,094.00
Merchandise.....	.....	.....	8.91	.....	.....
Miscellaneous.....	100.72	472.13	267.21	91.88	322.74
Total earnings.....	17,260.67	30,467.27	15,333.11	3,958.65	11,833.57
EXPENSES					
Power purchased.....	8,069.29	18,618.82	7,462.48	1,401.13	5,725.93
Substation operation.....	.....	.....	.....	.....	.....
Substation maintenance.....	.....	.....	.....	.....	.....
Distribution system, operation and maintenance.....	926.94	1,427.49	2,192.50	307.57	1,050.81
Line transformer maintenance.....	51.69	39.90	11.20	.....	62.30
Meter maintenance.....	208.93	121.75	456.51	54.82	222.35
Consumers' premises expenses.....	94.66	.....	.....	.....	.....
Street lighting, operation and main- tenance.....	736.31	226.77	438.34	71.08	479.55
Promotion of business.....	.....	.....	.....	.....	.....
Billing and collecting.....	899.65	1,338.19	1,174.74	419.55	488.25
General office, salaries and expenses	221.03	445.67	675.72	79.54	242.17
Undistributed expenses.....	3.28	.....	86.82	.....	43.96
Truck operation and maintenance.....	.....	.....	.....	.....	.....
Interest.....	6.25	.....	.....	.....	.....
Sinking fund and principal payments on debentures.....	.....	.....	.....	.....	.....
Depreciation.....	943.00	1,668.00	883.00	132.00	810.00
Other reserves.....	.....	.....	.....	.....	.....
Total operating costs and fixed charges.....	12,161.03	23,886.59	13,381.31	2,465.69	9,125.32
Net surplus.....	5,099.64	6,580.68	1,951.80	1,492.96	2,708.25
Net loss.....	.....	.....	.....	.....	.....
NUMBER OF CUSTOMERS					
Domestic service.....	257	449	299	74	205
Commercial light service.....	84	102	54	26	51
Power service.....	9	14	2	1	.....
Total.....	350	565	355	101	256

“B”—Continued

Utilities for Year Ended December 31, 1950

Meaford 3,114	Merlin 573	*Merrick- ville 985	Merritton 4,572	Midland 7,260	Mildmay 838	Millbrook 772
\$	\$	\$	\$	\$	\$	\$
28,311.10	3,614.14	4,692.62	43,480.49	62,989.76	7,153.06	8,101.72
17,322.53	3,605.54	2,108.49	10,056.01	28,308.89	4,355.36	4,109.32
17,663.28	1,943.93	2,373.46	302,014.07	82,411.66	1,334.05	788.19
1,096.14		207.42	2,437.56	3,069.78	192.08	
3,732.30	907.67	740.00	5,583.00	6,758.00	727.00	1,066.58
185.95				1,466.62		
1,203.44	1,246.86		2,010.70	6,559.10	185.62	122.37
69,514.74	11,318.14	10,121.99	365,581.83	191,563.81	13,947.17	14,188.18
35,588.68	5,445.09	5,398.50	317,637.78	109,212.40	6,526.58	8,014.31
			967.33	4,454.21		
				846.10		
4,137.20	366.75	396.90	7,621.65	6,947.02	816.73	1,403.64
345.49	25.98		628.64	817.03		184.04
734.33	207.25	71.60	879.03	2,059.21	159.11	151.92
340.43	216.47			23.75	16.52	
644.31	87.98	323.22	1,121.78	1,553.33	234.13	336.99
1,919.40	510.55	575.43	5,129.45	3,843.61	484.21	1,648.76
1,683.32	380.43	186.86	6,937.72	6,186.67	450.67	1,782.74
541.15	2.12	141.18	2,068.75	3,190.74		3.07
822.75			806.19	2,242.49		
	4.37	401.54			148.79	
		450.00			935.72	
2,883.00	1,061.00	236.00	7,366.00	11,252.00	609.00	471.00
49,640.06	8,307.99	8,181.23	351,164.32	152,628.56	10,381.46	13,996.47
19,874.68	3,010.15	1,940.76	14,417.51	38,935.25	3,565.71	191.71
985	150	246	1,229	2,033	227	227
189	58	56	93	247	64	57
26	4	11	21	58	6	3
1,200	212	313	1,343	2,338	297	287

*6 months' operation.

STATEMENT

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Milton	Milverton	Mimico	Mitchell	Moorefield
Population.....	2,405	1,039	10,410	1,920	264
EARNINGS	\$	\$	\$	\$	\$
Domestic service.....	24,951.24	11,121.69	115,634.46	27,566.40	2,407.75
Commercial light service.....	11,766.97	7,339.64	27,928.76	13,619.49	1,631.87
Commercial power service.....	39,062.25	6,814.77	22,178.97	14,416.72	1,320.78
Municipal power.....	312.88	490.00	9,343.79	1,786.94	.....
Street lighting.....	2,708.86	1,306.80	9,751.51	4,036.50	350.00
Merchandise.....	.....	109.51	.....	1,654.46	.....
Miscellaneous.....	345.45	140.30	4,566.03	1,390.71	20.13
Total earnings.....	79,147.65	27,322.71	189,403.52	64,471.22	5,730.53
EXPENSES					
Power purchased.....	58,849.20	20,494.88	112,408.24	37,636.64	4,530.52
Substation operation.....	.....	.....	597.14	1,359.83	.....
Substation maintenance.....	565.01	.....	.....	.....	.....
Distribution system, operation and maintenance.....	5,374.61	1,696.89	15,428.67	2,967.40	56.64
Line transformer maintenance.....	141.45	6.45	191.70	237.90	33.22
Meter maintenance.....	1,148.82	18.77	1,518.38	1,058.11	0.45
Consumers' premises expenses.....	746.20	.....	865.76	2,095.39	.....
Street lighting, operation and maintenance.....	1,201.41	97.42	1,798.96	964.88	62.09
Promotion of business.....	67.90	.....	.....	.....	.....
Billing and collecting.....	3,245.41	1,162.39	5,755.18	1,589.64	199.75
General office, salaries and expenses.....	4,081.90	735.38	7,604.48	1,823.01	74.76
Undistributed expenses.....	.....	62.93	.....	1,838.72	6.26
Truck operation and maintenance.....	.....	323.80	.....	830.81	.....
Interest.....	.....	33.68	.....	52.54	.....
Sinking fund and principal payments on debentures.....	.....	.....	.....	.....	.....
Depreciation.....	4,740.00	1,160.00	12,268.00	2,660.00	212.00
Other reserves.....	.....	.....	.....	.....	.....
Total operating costs and fixed charges.....	80,161.91	25,792.59	158,436.51	55,114.87	5,175.69
Net surplus.....	.....	1,530.12	30,967.01	9,356.35	554.84
Net loss.....	1,014.26	.....	.....	.....	.....
NUMBER OF CUSTOMERS					
Domestic service.....	692	311	2,920	601	85
Commercial light service.....	154	82	236	135	35
Power service.....	23	14	40	25	1
Total.....	869	407	3,196	761	121

“B”—Continued

Utilities for Year Ended December 31, 1950

Morrisburg 1,913	Mount Brydges 633	Mount Forest 2,168	Napanee 3,769	Neustadt 457	Newboro 276	Newburgh 486
\$	\$	\$	\$	\$	\$	\$
17,608.55	4,619.20	18,955.07	46,092.44	3,394.65	3,034.23	4,655.10
12,161.40	1,375.08	13,982.50	31,707.51	2,064.12	1,902.80	1,856.94
7,591.39	1,079.61	8,892.97	18,133.07	1,173.58		954.45
1,382.87		1,185.00	792.63			
3,586.00	889.50	2,386.88	4,361.00	644.00	759.96	495.00
			3,101.49			
1,827.93	333.49	519.33	426.96	437.94	0.24	
44,158.14	8,296.88	45,921.75	104,615.10	7,714.29	5,697.23	7,961.49
17,077.48	4,933.94	25,989.72	62,155.71	3,002.81	2,250.96	4,297.99
2,903.68						
2,163.56	165.28	2,185.42	2,046.16	66.01	48.21	172.74
132.78	14.78	102.76	597.89		39.09	44.70
494.96		408.61	692.88	41.87		40.15
169.00	8.92		1,664.40			
556.79	196.68	435.20	1,162.29	115.42	87.45	10.72
2,377.02	1,333.98	1,209.01	3,703.48	719.39	201.97	504.61
1,016.14	47.53	532.32	9,032.25	322.42	230.53	76.97
824.30	1.76	160.62	4,328.63	26.02		
1,293.65		285.78	526.64			
	1.35		233.41	2.08	512.06	400.00
					632.67	500.00
1,314.00	428.00	1,348.00	3,994.00	580.00	367.00	571.00
30,323.36	7,132.22	32,657.44	90,137.74	4,876.02	4,369.94	6,618.88
13,834.78	1,164.66	13,264.31	14,477.36	2,838.27	1,327.29	1,342.61
522	211	605	1,099	145	77	125
152	49	160	241	32	18	25
30	6	19	30	3		4
704	266	784	1,370	180	95	154

STATEMENT

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Newbury	Newcastle	New Hamburg	Newmarket
Population.....	284	851	1,704	5,036
EARNINGS	\$	\$	\$	\$
Domestic service.....	2,706.68	9,420.77	19,538.64	51,681.51
Commercial light service.....	1,639.79	4,659.47	9,833.37	25,693.16
Commercial power service.....	212.78	7,013.01	11,480.16	31,950.72
Municipal power.....				2,404.93
Street lighting.....	720.00	1,454.09	2,124.08	6,751.08
Merchandise.....			675.31	
Miscellaneous.....	199.64	416.02	382.87	
Total earnings.....	5,478.89	22,963.36	44,034.43	118,481.40
EXPENSES				
Power purchased.....	3,202.00	12,921.78	33,300.08	85,906.62
Substation operation.....			339.28	
Substation maintenance.....				122.22
Distribution system, operation and maintenance.....	254.65	1,311.41	1,541.09	5,954.23
Line transformer maintenance.....	6.00	38.50	50.28	1,243.04
Meter maintenance.....		375.29	500.74	302.19
Consumers' premises expenses.....		145.12	680.44	
Street lighting, operation and maintenance.....	192.71	352.56	226.12	1,532.06
Promotion of business.....				10.27
Billing and collecting.....	219.04	1,284.75	1,494.42	3,832.51
General office, salaries and expenses..	159.65	822.18	1,205.10	3,836.13
Undistributed expenses.....	7.99	232.77	498.20	
Truck operation and maintenance.....		572.22	601.10	
Interest.....			3.00	54.91
Sinking fund and principal payments on debentures.....				1,000.00
Depreciation.....	352.00	725.00	2,134.00	5,522.00
Other reserves.....				275.00
Total operating costs and fixed charges.....	4,394.04	18,781.58	42,573.85	109,591.18
Net surplus.....	1,084.85	4,181.78	1,460.58	8,890.22
Net loss.....				
NUMBER OF CUSTOMERS				
Domestic service.....	91	278	451	1,380
Commercial light service.....	23	43	116	213
Power service.....	1	9	17	41
Total.....	115	330	584	1,634

“B”—Continued

Utilities for Year Ended December 31, 1950

New Toronto 10,961	Niagara 1,939	Niagara Falls 21,737	North York Twp. (V.A.)	Norwich 1,361	Norwood 911	Oakville 6,371
\$	\$	\$	\$	\$	\$	\$
90,971.91	34,868.09	179,888.19	983,061.14	15,979.49	9,389.17	59,009.50
45,101.61	10,469.63	120,254.58	152,046.19	8,322.69	5,250.93	45,528.22
295,146.68	1,916.29	138,885.40	170,857.57	2,256.19	2,686.64	64,570.65
14,087.65	1,036.32	16,976.70	15,618.37	473.11	205.62	8,345.58
9,694.04	4,594.18	40,102.52	26,649.01	2,530.00	1,656.00	5,826.10
.....	2,565.57	.....	.....	859.93	.....	.....
6,689.64	150.00	5,155.62	300.00	344.37	680.91	25.17
461,691.53	55,600.08	501,263.01	1,348,532.28	30,765.78	19,869.27	183,305.22
391,276.31	32,077.64	319,519.71	865,459.29	19,394.97	7,353.52	117,814.35
.....	115.90	14,635.25	5,063.44	.....	.....	96.20
6,704.50	2,920.91	21,589.20	89,317.22	3,712.29	1,261.20	4,287.90
1,692.86	305.10	965.47	13,531.14	2.08	.....	747.83
3,763.63	641.42	9,887.26	7,790.25	283.78	142.63	1,089.59
260.94	57.62	9,134.59	5,937.74	1,074.76	38.19	591.43
2,719.35	858.74	7,017.33	6,818.62	461.53	647.95	2,119.70
6,051.52	1,814.87	15,200.43	57,776.40	1,267.55	1,056.45	6,388.78
13,887.76	1,958.05	19,052.27	32,531.91	1,263.89	691.14	11,525.20
.....	947.80	11,846.94	.....	286.53	.....	.....
.....	1,005.54	5,402.08	.....	297.18	.....	.....
.....	210.00	286.58	59,042.48	.....	125.05	.....
.....	1,200.00	5,731.61	50,850.72	.....	2,278.56	.....
11,165.00	3,878.00	24,707.00	66,120.00	1,384.00	1,043.00	6,055.00
.....	.....	.....	3,251.00	.....	.....	443.00
437,521.87	47,991.59	464,975.72	1,263,490.21	29,428.56	14,637.69	151,158.98
24,169.66	7,608.49	36,287.29	85,042.07	1,337.22	5,231.58	32,146.24
2,372	816	5,781	22,451	446	270	1,800
294	112	939	1,171	101	78	252
56	14	139	148	10	5	69
2,722	942	6,859	23,770	557	353	2,121

STATEMENT

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Oil Springs	Omemeë	Orange- ville	Orono	Oshawa
Population.....	420	713	3,273	561	29,771
EARNINGS	\$	\$	\$	\$	\$
Domestic service.....	2,884.65	5,953.16	31,155.35	8,526.99	362,445.75
Commercial light service.....	1,744.40	2,948.81	21,208.46	3,140.59	131,144.89
Commercial power service.....	5,442.55	3,299.37	7,932.14	159.82	534,537.97
Municipal power.....	198.11		953.37		16,162.79
Street lighting.....	632.66	1,099.40	4,750.22	1,111.25	37,199.98
Merchandise.....					
Miscellaneous.....	622.22	161.78	1,545.71	316.76	40,540.99
Total earnings.....	11,524.59	13,462.52	67,545.25	13,255.41	1,122,032.37
EXPENSES					
Power purchased.....	7,292.71	5,588.49	28,737.12	4,893.26	810,828.15
Substation operation.....					2,399.92
Substation maintenance.....					
Distribution system, operation and maintenance.....	225.78	824.67	2,836.26	408.05	29,962.11
Line transformer maintenance.....	52.94	140.25	213.66	38.70	613.14
Meter maintenance.....	52.25	221.12	599.30	295.50	9,863.14
Consumers' premises expenses.....				29.00	9,277.65
Street lighting, operation and main- tenance.....	55.45	328.33	784.04	147.67	4,383.67
Promotion of business.....					506.73
Billing and collecting.....	644.66	607.13	2,630.01	853.54	21,647.13
General office, salaries and expenses	225.74	229.66	1,219.42	814.74	30,780.22
Undistributed expenses.....	4.03	26.25	413.50	21.34	5,849.00
Truck operation and maintenance.....			987.20		3,078.99
Interest.....					
Sinking fund and principal payments on debentures.....					
Depreciation.....	897.00	816.00	3,544.00	503.00	33,976.28
Other reserves.....					493.00
Total operating costs and fixed charges.....	9,450.56	8,781.90	41,964.51	8,004.80	963,659.13
Net surplus.....	2,074.03	4,680.62	25,580.74	5,250.61	158,373.24
Net loss.....					
NUMBER OF CUSTOMERS					
Domestic service.....	128	220	891	223	8,182
Commercial light service.....	40	39	215	48	907
Power service.....	33	8	35	3	162
Total.....	201	267	1,141	274	9,251

“B”—Continued

Utilities for Year Ended December 31, 1950

Ottawa	Otterville	Owen Sound	Paisley	Palmerston	Paris	Parkhill
193,319	588	16,428	731	1,557	5,134	970
\$	\$	\$	\$	\$	\$	\$
2,225,928.18	5,528.27	166,419.54	7,844.37	18,616.66	44,641.36	12,436.56
1,630,131.02	3,277.56	92,483.15	4,967.15	9,463.73	15,279.19	7,348.67
601,063.70	528.70	117,377.53	2,046.90	9,206.67	33,044.83	5,051.73
166,992.58	135.83	.....	323.12	1,354.70	1,494.88	657.87
114,846.45	945.00	13,857.83	1,492.00	2,775.87	6,925.50	2,176.10
.....	.....	.....	.....	64.14	.....	.....
39,002.54	191.37	2,271.82	183.73	503.06	1,333.59	189.85
4,777,964.47	10,606.73	392,409.87	16,857.27	41,984.83	102,719.35	27,860.78
2,407,370.41	6,419.96	234,866.88	6,853.71	24,308.10	73,123.21	13,570.34
288,467.73	.....	9,029.43	.....	.....	.....	.....
14,764.66	.....	569.99	.....	.....	988.65	.....
190,286.53	1,022.32	9,577.41	1,073.53	1,287.33	4,304.71	2,029.42
24,872.18	7.50	1,560.85	31.41	388.50	379.40	106.62
40,078.94	48.00	4,344.08	38.37	386.02	1,118.58	216.63
17,968.31	64.20	5,842.40	.....	375.24	303.50	329.64
37,831.64	148.92	4,201.64	381.70	650.42	2,567.21	449.52
9,803.68	.....	260.35	.....	12.30	.....	.....
183,493.82	453.09	16,118.86	750.32	1,557.52	2,935.64	721.00
100,908.36	490.98	14,562.86	827.59	1,237.54	2,464.24	292.52
7,401.63	9.49	3,542.49	67.44	234.92	1,301.09	129.16
35,923.92	.....	.....	.....	437.81	1,814.06	251.89
127,251.90	.....	554.54	.....	.....	25.65	50.19
245,964.77	.....	.....	.....	.....	.....	.....
257,585.00	571.00	15,862.00	1,021.00	2,648.00	5,069.00	1,580.00
34,120.00	.....	.....	.....	.....	.....	.....
4,024,093.48	9,235.46	320,893.78	11,045.07	33,523.70	96,394.94	19,726.93
753,870.99	1,371.27	71,516.09	5,812.20	8,461.13	6,324.41	8,133.85
.....
50,143	191	4,475	251	461	1,341	342
6,853	62	676	64	107	204	93
972	11	117	7	22	32	12
57,968	264	5,268	322	590	1,577	447

STATEMENT

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Parry Sound	Penetang- uishene	Perth	Peter- borough
Population.....	5,148	4,793	4,786	36,716
EARNINGS	\$	\$	\$	\$
Domestic service.....	48,558.03	24,818.47	47,322.76	389,012.42
Commercial light service.....	31,758.59	14,855.22	26,247.34	163,321.76
Commercial power service.....	11,297.38	20,662.63	21,913.08	339,481.12
Municipal power.....	3,184.20	2,121.96	1,128.43	8,332.96
Street lighting.....	7,744.23	3,117.34	3,829.14	31,815.00
Merchandise.....	.....	116.42	6,267.64	.....
Miscellaneous.....	6,154.93	2,095.05	3,093.56	2,591.08
Total earnings.....	108,697.36	67,787.09	109,801.95	934,554.34
EXPENSES				
Power purchased.....	24,269.28	34,118.63	72,247.51	648,663.85
Substation operation.....	10,511.08	.....	91.57	14,837.05
Substation maintenance.....	612.78	.....	.....	3,260.04
Distribution system, operation and maintenance.....	3,966.68	5,079.19	5,823.84	28,119.69
Line transformer maintenance.....	121.93	245.51	336.50	1,971.72
Meter maintenance.....	1,984.56	771.93	789.61	22,063.43
Consumers' premises expenses.....	337.41	5.23	72.67	14,364.55
Street lighting, operation and main- tenance.....	936.73	682.42	976.29	11,981.10
Promotion of business.....	.....	.....	24.76	128.05
Billing and collecting.....	3,725.69	2,579.10	3,632.66	23,304.37
General office, salaries and expenses..	8,098.77	2,028.63	5,446.99	16,362.64
Undistributed expenses.....	2,799.80	1,177.45	442.45	21,356.01
Truck operation and maintenance.....	1,911.14	578.86	2,435.13	12,263.23
Interest.....	581.11	.....	488.05	2,463.60
Sinking fund and principal payments on debentures.....	6,665.19	.....	3,840.64	6,000.00
Depreciation.....	9,400.00	3,233.00	4,054.00	49,603.00
Other reserves.....	.....	.....	.....	375.00
Total operating costs and fixed charges.....	75,922.15	50,499.95	100,702.67	877,117.33
Net surplus.....	32,775.21	17,287.14	9,099.28	57,437.01
Net loss.....	.....	.....	.....	.....
NUMBER OF CUSTOMERS				
Domestic service.....	1,366	1,011	1,373	9,665
Commercial light service.....	263	150	235	1,324
Power service.....	24	19	35	210
Total.....	1,653	1,180	1,643	11,199

"B"—Continued

Utilities for Year Ended December 31, 1950

Petrolia 3,006	Picton 4,217	Plattsville 402	Point Edward 1,687	Port Colborne 8,008	Port Credit 3,342	Port Dalhousie 2,368
\$	\$	\$	\$	\$	\$	\$
22,747.53	42,507.34	5,500.72	15,160.44	46,646.48	44,513.14	38,120.73
16,256.01	26,876.56	3,260.91	5,512.80	33,425.45	16,558.39	7,887.23
27,245.91	12,792.48	4,272.94	86,801.56	23,445.91	10,519.21	8,870.67
.....	3,040.31	.....	157.59	7,336.63	1,373.68	.....
3,784.00	3,885.54	459.00	2,172.00	9,533.86	3,460.00	2,406.13
.....	223.82	.....	.....	.....	.....	.....
1,639.15	234.47	236.03	2,476.22	3,238.06	134.00	.....
71,672.60	89,560.52	13,729.60	112,280.61	123,626.39	76,558.42	57,284.76
38,577.68	59,447.65	10,320.45	99,554.18	69,135.85	48,659.42	31,874.96
391.27	5.94	.....	.....	.....	.....	.....
5,707.83	2,698.44	248.85	1,837.43	13,334.22	3,777.25	6,652.94
481.98	92.34	.....	421.61	633.14	240.79	443.71
1,054.01	754.66	201.52	109.78	1,274.24	1,122.39	209.43
2,485.74	72.46	.....	1,065.06	1,613.47	1,252.92	386.15
1,152.77	470.05	55.23	330.94	2,792.77	1,460.63	531.28
1.00	.....	.....	89.96	.....	.....	.....
2,064.87	4,552.61	273.12	2,297.92	6,242.05	2,703.17	2,874.70
4,540.52	2,839.42	44.57	3,401.90	4,830.27	1,355.65	2,290.48
2,930.59	338.18	7.86	56.78	2,322.60	.....	878.76
1,797.78	996.46	.....	.....	1,421.36	.....	509.27
.....	.....	.....	292.02	95.35	550.95	595.00
.....	.....	.....	.....	1,910.71	890.34	1,449.10
3,587.00	5,296.00	528.00	2,219.00	7,199.00	3,865.00	2,231.00
.....	.....	.....	.....	.....	179.00	.....
64,773.04	77,564.21	11,679.60	111,676.58	112,805.03	66,057.51	50,926.78
6,899.56	11,996.31	2,050.00	604.03	10,821.36	10,500.91	6,357.98
.....
889	1,300	135	461	1,978	928	862
195	280	28	63	282	136	79
63	46	2	13	32	17	12
1,147	1,626	165	537	2,292	1,081	953

STATEMENT

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Port Dover	Port Elgin	Port Hope	Port McNicol	Port Perry
Population.....	2,442	1,541	6,131	897	1,600
EARNINGS	\$	\$	\$	\$	\$
Domestic service.....	19,398.13	24,946.39	70,723.25	7,787.90	19,345.13
Commercial light service.....	11,020.31	13,007.90	29,187.01	2,171.51	8,831.65
Commercial power service.....	8,744.70	5,132.34	73,511.61	.....	3,699.50
Municipal power.....	.....	1,116.30	2,076.99	538.18	10.88
Street lighting.....	3,316.97	3,579.05	5,654.69	1,055.00	1,860.00
Merchandise.....	.....	.....	192.06	.....	.....
Miscellaneous.....	108.11	455.48	279.68	310.00	558.22
Total earnings.....	42,588.22	48,237.46	181,625.29	11,862.59	34,305.38
EXPENSES					
Power purchased.....	27,216.25	25,046.37	139,843.87	4,206.88	13,466.86
Substation operation.....	.....	.....	229.77	.....	.....
Substation maintenance.....	.....	.....	.....	.....	.....
Distribution system, operation and maintenance.....	3,307.52	2,324.49	4,183.91	549.55	1,994.98
Line transformer maintenance.....	56.14	128.51	92.31	53.20	5.18
Meter maintenance.....	635.41	184.13	2,269.21	318.96	322.82
Consumers' premises expenses.....	15.22	407.68	908.33	10.60	841.24
Street lighting, operation and main- tenance.....	399.60	524.67	1,470.86	148.47	290.84
Promotion of business.....	.....	.....	.....	.....	.....
Billing and collecting.....	1,444.91	1,211.54	5,036.69	819.45	1,191.23
General office, salaries and expenses	1,585.50	581.86	7,190.05	423.59	943.54
Undistributed expenses.....	200.42	126.90	3,557.21	66.34	8.83
Truck operation and maintenance...	558.82	1,584.35	2,262.99	.....	.....
Interest.....	11.71	160.97	.....	126.53	.....
Sinking fund and principal payments on debentures.....	.....	3,209.23	.....	200.00	.....
Depreciation.....	3,330.00	1,950.00	6,910.00	729.00	1,422.00
Other reserves.....	.....	.....	.....	.....	.....
Total operating costs and fixed charges.....	38,761.50	37,440.70	173,955.20	7,652.57	20,487.52
Net surplus.....	3,826.72	10,796.76	7,670.09	4,210.02	13,817.86
Net loss.....	.....	.....	.....	.....	.....
NUMBER OF CUSTOMERS					
Domestic service.....	954	650	1,891	314	478
Commercial light service.....	179	148	249	25	104
Power service.....	21	12	45	1	11
Total.....	1,154	810	2,185	340	593

“B”—Continued

Utilities for Year Ended December 31, 1950

Port Rowan 803	Port Stanley 1,196	Prescott 3,357	Preston 7,368	Priceville 181	Princeton 321	Queenston 287
\$	\$	\$	\$	\$	\$	\$
5,210.66	27,343.04	39,349.37	70,389.64	1,477.40	4,207.50	4,984.86
5,341.33	9,749.90	20,194.94	29,945.45	974.30	1,458.95	2,853.29
131.13	18,369.50	15,384.07	84,358.16		1,848.20	
163.99	1,069.17	1,716.93	2,239.99			
903.50	3,026.35	4,628.98	7,992.00	267.00	578.00	582.00
	396.63	93.26	644.32	2.17	219.49	210.00
11,750.61	59,954.59	81,367.55	195,569.56	2,720.87	8,312.14	8,630.15
8,563.18	39,944.41	47,773.17	157,532.00	786.83	6,284.42	5,066.02
		2,257.33	4,392.78			
			2,766.76			
1,089.97	2,680.17	3,938.21	4,672.08	114.55	158.22	1,226.50
22.80	120.81	115.06	604.90		5.69	
171.12	478.61	567.93	2,445.65	3.00	56.72	58.64
	25.36	983.38	484.72			379.49
174.18	554.54	849.26	1,106.19	34.99	72.18	3.50
545.68	2,092.60	2,827.59	3,088.45	256.31	275.31	261.70
247.70	1,096.52	4,626.79	5,141.63	209.57	41.36	284.35
28.91	636.14	634.34	2,080.11		1.91	38.07
	376.13	601.55	1,249.34			
31.00	59.84	110.66	184.94	225.71		
			1,528.43	150.00		
805.00	2,917.00	3,074.00	8,214.00	359.00	254.00	618.00
11,679.54	50,982.13	68,359.27	195,491.98	2,139.96	7,149.81	7,936.27
71.07	8,972.46	13,008.28	77.58	580.91	1,162.33	693.88
252	1,028	915	1,939	50	109	100
72	126	169	254	13	25	19
3	16	28	60		4	
327	1,170	1,112	2,253	63	138	119

STATEMENT

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Renfrew	Richmond	Richmond Hill	Ridgetown	Ripley
Population.....	7,069	556	2,123	2,211	450
EARNINGS	\$	\$	\$	\$	\$
Domestic service.....	57,149.43	5,382.91	26,821.62	14,013.30	5,593.21
Commercial light service.....	26,361.91	2,174.72	9,483.93	13,110.18	2,886.65
Commercial power service.....	56,099.05		3,036.50	7,979.00	1,673.12
Municipal power.....			997.72	1,627.55	577.95
Street lighting.....	6,648.00	506.25	1,479.72	4,955.97	1,187.00
Merchandise.....				97.21	
Miscellaneous.....	10,715.04		202.68	1,350.33	13.94
Total earnings.....	156,973.43	8,063.88	42,022.17	43,133.54	11,931.87
EXPENSES					
Power purchased.....	44,021.03	6,284.02	28,776.72	23,332.24	6,267.17
Substation operation.....	30,997.06				
Substation maintenance.....	2,021.33				
Distribution system, operation and maintenance.....	5,178.33	80.48	1,437.05	5,829.00	378.54
Line transformer maintenance.....	414.44	101.10	565.05	221.94	
Meter maintenance.....	535.19	65.12	42.10	253.27	284.10
Consumers' premises expenses.....	26.11		65.05	98.99	
Street lighting, operation and maintenance.....	713.51	41.61	237.43	940.45	63.50
Promotion of business.....				279.12	
Billing and collecting.....	4,627.96	272.96	2,175.97	2,654.86	422.06
General office, salaries and expenses.....	9,095.24	76.11	530.07	3,062.73	161.78
Undistributed expenses.....	5,672.23			11.23	
Truck operation and maintenance.....	1,439.82			409.75	
Interest.....	1,633.81	60.35			
Sinking fund and principal payments on debentures.....	8,284.31				
Depreciation.....	11,329.00	434.00	1,557.00	1,521.00	678.00
Other reserves.....			100.00		
Total operating costs and fixed charges.....	125,989.37	7,415.75	35,486.44	38,614.58	8,255.15
Net surplus.....	30,984.06	648.13	6,535.73	4,518.96	3,676.72
Net loss.....					
NUMBER OF CUSTOMERS					
Domestic service.....	1,820	154	616	720	154
Commercial light service.....	250	29	112	167	55
Power service.....	68		19	25	2
Total.....	2,138	183	747	912	211

“B”—Continued

Utilities for Year Ended December 31, 1950

Riverside 8,600	Rockwood 653	Rodney 885	Rosseau 185	Russell 480	St. Catharines 37,543	St. Clair Beach 425
\$	\$	\$	\$	\$	\$	\$
92,611.39	8,008.81	5,437.65	2,311.92	5,147.57	328,146.75	6,101.52
15,343.39	2,800.59	4,008.71	2,484.39	3,347.60	178,116.83	2,797.74
6,027.31	72.16	3,324.91		250.47	611,436.40	248.28
4,491.69						
6,332.22	882.76	1,152.02	940.02	880.00	37,225.01	315.00
5,602.23	118.99	501.66		63.21	11,467.41	301.62
130,408.23	11,883.31	14,424.95	5,736.33	9,688.85	1,166,392.40	9,764.16
72,072.84	7,514.78	8,413.43	2,335.06	5,266.38	895,728.75	4,992.10
28.60					18,868.71	
4,152.49	776.61	1,201.27	156.37	61.41	51,993.64	1,670.13
109.92		39.26		67.80	3,151.99	11.35
549.29	15.59	7.30	15.31	194.36	15,159.72	5.75
10,036.45					3,716.80	54.70
982.35	157.16	284.85	102.40	77.62	7,467.55	41.36
					466.77	
3,269.42	608.40	719.03	367.00	645.70	31,854.62	500.21
4,964.69	507.28	535.26	114.05	139.80	16,739.27	706.74
2,138.28	32.31	37.12	2.23		18,863.39	1.77
2,386.18					8,491.92	
315.18	18.65		148.71		175.00	
	181.96		897.76		3,500.00	
7,518.00	522.00	882.00	251.00	481.00	41,762.00	466.00
108,523.69	10,334.74	12,119.52	4,389.89	6,934.07	1,117,940.13	8,450.11
21,884.54	1,548.57	2,305.43	1,346.44	2,754.78	48,452.27	1,314.05
2,524	215	301	83	139	10,377	158
143	38	77	17	39	1,332	13
15	2	8		1	265	1
2,682	255	386	100	179	11,974	172

STATEMENT

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	St. George	St. Jacobs	St. Marys	St. Thomas
Population.....	611	724	3,912	19,807
EARNINGS	\$	\$	\$	\$
Domestic service.....	5,025.93	7,199.32	59,232.35	206,831.11
Commercial light service.....	3,642.74	3,176.93	22,339.76	91,347.52
Commercial power service.....	3,902.68	4,666.54	33,400.42	127,928.05
Municipal power.....			1,796.25	5,700.99
Street lighting.....	847.98	460.00	5,734.00	16,711.20
Merchandise.....				
Miscellaneous.....	208.78	317.56	445.82	2,652.06
Total earnings.....	13,628.11	15,820.35	122,948.60	451,170.93
EXPENSES				
Power purchased.....	6,696.23	11,417.11	74,873.46	307,974.23
Substation operation.....			1,728.39	16,415.55
Substation maintenance.....			44.73	1,360.63
Distribution system, operation and maintenance.....	211.18	93.72	3,844.35	25,393.25
Line transformer maintenance.....	47.87	85.05	493.15	3,306.80
Meter maintenance.....	315.84	29.05	762.67	6,270.47
Consumers' premises expenses.....			6,354.95	21,604.09
Street lighting, operation and maintenance.....	205.40	81.17	1,669.03	4,805.23
Promotion of business.....			83.14	667.21
Billing and collecting.....	751.00	893.43	3,198.32	14,040.58
General office, salaries and expenses..	341.78	256.65	4,577.42	17,404.96
Undistributed expenses.....	52.85	3.14	1,825.76	
Truck operation and maintenance.....				
Interest.....	1.56		1,386.49	54.61
Sinking fund and principal payments on debentures.....			3,308.19	
Depreciation.....	537.00	704.00	4,868.00	15,834.70
Other reserves.....				
Total operating costs and fixed charges.....	9,160.71	13,563.32	109,018.05	435,132.31
Net surplus.....	4,467.40	2,257.03	13,930.55	16,038.62
Net loss.....				
NUMBER OF CUSTOMERS				
Domestic service.....	194	170	1,196	5,291
Commercial light service.....	45	39	209	665
Power service.....	4	8	42	100
Total.....	243	217	1,447	6,056

“B”—Continued

Utilities for Year Ended December 31, 1950

Sarnia 23,550	Scarborough Twp. (V.A.)	Seaforth 2,072	Shelburne 1,257	Simcoe 7,078	Smiths Falls 8,358
\$	\$	\$	\$	\$	\$
227,012.78	417,471.17	24,935.43	10,858.02	46,366.82	93,315.41
120,573.18	111,457.57	16,478.91	6,916.91	48,782.21	46,587.46
344,776.76	96,938.23	19,521.87	4,259.67	40,648.64	39,413.91
8,071.28	25,795.61	768.49	217.52	3,237.71	884.71
24,640.61	20,925.16	3,165.20	1,197.00	8,654.25	9,250.08
16,687.24	.....	.....	.....	240.46	.....
13,649.71	2,396.30	560.28	292.81	4,801.20	2,306.74
755,411.56	674,984.04	65,430.18	23,741.93	152,731.29	191,758.31
514,410.92	428,553.42	39,249.80	12,205.90	100,974.70	124,273.39
21,582.12	.....	250.50	.....	952.07	454.26
1,980.95	1,901.18	.....	.....	.....	1,309.10
21,612.49	27,976.50	2,729.17	625.92	10,432.21	11,144.24
3,264.40	5,469.91	446.37	.....	1,079.31	369.01
10,373.34	532.17	461.19	228.04	2,655.64	1,312.98
36,527.25	8,773.47	516.83	.....	1,445.29	937.20
8,066.26	7,280.54	740.36	333.29	2,125.06	2,364.57
579.17	.....	193.89	.....	107.28	.....
16,790.57	23,087.50	1,527.50	1,047.48	4,544.38	6,377.07
31,503.64	20,418.79	1,880.12	410.85	4,101.64	7,482.95
14,612.86	.....	851.50	4.75	996.84	1,883.98
5,046.57	.....	1,615.68	.....	2,102.15	3,297.11
3,105.37	9,481.87	378.71	12.75	94.49	10.48
4,000.00	7,000.00	659.36	.....	873.39	.....
36,128.00	36,006.00	2,826.00	1,273.00	9,103.00	6,672.00
.....	1,565.00	.....	.....	.....	.....
729,583.91	578,046.35	54,326.98	16,141.98	141,587.45	167,888.34
25,827.65	96,937.69	11,103.20	7,599.95	11,143.84	23,869.97
.....
6,369	11,849	637	372	2,008	2,372
800	939	123	98	457	345
109	136	23	13	70	47
7,278	12,924	783	483	2,535	2,764

STATEMENT

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Smithville	Southamp- ton	Springfield	Stamford Twp.
Population.....	631	1,724	494	15,633
EARNINGS	\$	\$	\$	\$
Domestic service.....	5,460.51	19,819.72	3,778.84	161,287.23
Commercial light service.....	4,384.32	9,367.64	1,517.84	38,916.82
Commercial power service.....	12,178.30	12,624.59	1,680.69	33,371.02
Municipal power.....		1,029.50		2,698.71
Street lighting.....	1,637.00	3,414.71	611.50	12,173.92
Merchandise.....				8,720.67
Miscellaneous.....	483.67	238.29	173.38	214.43
Total earnings.....	24,143.80	46,494.45	7,762.25	257,382.80
EXPENSES				
Power purchased.....	13,727.40	26,309.18	4,364.84	131,933.94
Substation operation.....				1,480.06
Substation maintenance.....				
Distribution system, operation and maintenance.....	2,016.58	2,128.91	504.25	14,464.82
Line transformer maintenance.....	28.18	61.10	17.92	1,772.54
Meter maintenance.....	148.28	638.40	13.83	4,467.55
Consumers' premises expenses.....		432.11		5,035.12
Street lighting, operation and main- tenance.....	185.61	570.64	179.01	2,967.63
Promotion of business.....				
Billing and collecting.....	1,315.82	1,279.77	490.30	8,827.39
General office, salaries and expenses..	673.77	783.57	342.68	8,663.11
Undistributed expenses.....	124.92	159.31	6.62	8,712.98
Truck operation and maintenance.....	448.34	762.63		6,844.79
Interest.....	40.30			4,883.50
Sinking fund and principal payments on debentures.....	1,007.67			10,102.68
Depreciation.....	850.00	1,984.00	717.00	18,426.00
Other reserves.....				
Total operating costs and fixed charges.....	20,566.87	35,109.62	6,636.45	228,582.11
Net surplus.....	3,576.93	11,384.83	1,125.80	28,800.69
Net loss.....				
NUMBER OF CUSTOMERS				
Domestic service.....	210	736	131	4,109
Commercial light service.....	67	91	32	284
Power service.....	10	14	4	33
Total.....	287	841	167	4,426

“B”—Continued

Utilities for Year Ended December 31, 1950

Stayner 1,252	Stirling 1,151	Stoney Creek 1,703	Stouffville 1,664	Stratford 18,836	Strathroy 3,581
\$	\$	\$	\$	\$	\$
12,105.79	12,824.99	23,733.61	14,884.71	213,190.12	42,611.29
6,502.41	5,607.38	9,616.49	8,486.56	73,077.15	22,544.92
4,328.48	2,605.99	3,040.33	7,344.29	82,445.06	21,574.48
94.21	306.72	1,005.72	.....	10,380.47	1,508.08
1,649.07	1,812.96	1,075.94	1,646.00	17,691.54	5,112.71
.....	119.84	.....	.....	2,098.01	.....
403.33	456.46	.....	234.46	16,881.79	764.38
25,083.29	23,734.34	38,472.09	32,596.02	415,764.14	94,115.86
11,619.46	14,186.72	22,896.82	19,431.42	289,826.40	61,705.72
.....	326.76	.....	.....	10,172.30	1,134.08
.....	.....	.....	.....	1,873.16	.....
892.63	2,099.01	639.15	1,170.14	13,657.23	5,654.18
125.83	.....	32.04	75.34	417.67	541.10
592.85	79.14	406.63	173.55	5,549.60	656.01
621.34	11.18	377.07	212.20	8,722.33	279.11
380.59	342.13	228.23	201.47	3,957.25	2,329.32
.....	.....	.....	.....	1,210.60	307.32
1,525.15	1,097.21	1,474.45	1,322.44	13,903.58	1,824.94
791.60	2,064.65	68.29	452.61	14,200.90	4,888.83
6.52	170.17	11.59	.....	4,720.71	1,103.67
.....	229.75	.....	.....	3,079.98	578.39
.....	.....	1,350.50	.....	2,650.00	149.20
.....	.....	1,463.95	.....	900.00	1,455.65
982.00	1,405.00	1,515.00	1,055.00	22,124.00	3,823.00
.....
17,537.97	22,011.72	30,463.72	24,094.17	396,965.71	86,430.52
7,545.32	1,722.62	8,008.37	8,501.85	18,798.43	7,685.34
.....
372	340	515	507	5,168	1,106
101	85	89	112	685	219
19	15	10	10	141	39
492	440	614	629	5,994	1,364

STATEMENT

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Streetsville	Sunderland	Sutton	Swansea
Population.....	1,020	492	1,208	7,864
EARNINGS	\$	\$	\$	\$
Domestic service.....	13,111.75	5,589.04	14,868.88	112,994.68
Commercial light service.....	5,354.71	3,067.43	10,927.06	23,735.94
Commercial power service.....	15,625.42	3,089.72	3,718.32	31,238.41
Municipal power.....	448.60			2,258.10
Street lighting.....	1,565.62	835.98	2,506.00	8,235.65
Merchandise.....				
Miscellaneous.....	175.06	37.42	275.20	381.54
Total earnings.....	36,281.16	12,619.59	32,295.46	178,844.32
EXPENSES				
Power purchased.....	23,004.83	5,493.59	17,060.87	111,712.24
Substation operation.....				
Substation maintenance.....	2,421.11			628.50
Distribution system, operation and maintenance.....	1,057.04	654.66	947.83	3,662.37
Line transformer maintenance.....	358.41		141.88	131.82
Meter maintenance.....	90.47	353.12	32.82	1,172.49
Consumers' premises expenses.....	.15		10.78	10,177.15
Street lighting, operation and maintenance.....	456.72	149.36	236.94	1,380.22
Promotion of business.....				
Billing and collecting.....	1,346.33	709.28	1,594.16	7,890.40
General office, salaries and expenses..	964.73	130.01	369.04	2,370.67
Undistributed expenses.....		7.52		
Truck operation and maintenance.....				
Interest.....				663.59
Sinking fund and principal payments on debentures.....				3,513.78
Depreciation.....	1,481.00	319.00	1,792.00	4,837.00
Other reserves.....	86.00			100.00
Total operating costs and fixed charges.....	31,266.79	7,816.54	22,186.32	148,240.23
Net surplus.....	5,014.37	4,803.05	10,109.14	30,604.09
Net loss.....				
NUMBER OF CUSTOMERS				
Domestic service.....	286	182	576	2,405
Commercial light service.....	60	43	131	135
Power service.....	13	2	10	28
Total.....	359	227	717	2,568

“B”—Continued

Utilities for Year Ended December 31, 1950

Tara 477	Tavistock 1,057	Tecumseh 3,335	Teeswater 870	Thamesford 539	Thamesville 886	Thedford 600
\$	\$	\$	\$	\$	\$	\$
5,250.60	12,891.40	27,057.95	7,569.21	8,332.15	6,064.56	5,852.01
2,876.35	6,649.92	9,207.46	4,144.02	3,433.85	5,197.22	4,740.03
1,917.13	8,659.61	9,256.21	5,540.96	2,270.05	4,861.00	2,889.29
136.51	418.87	639.26	376.05		164.92	
1,072.00	1,368.00	1,728.96	1,008.00	686.00	1,454.43	1,275.00
	29.54					
22.91	468.51	547.34	408.43	93.78	350.69	308.10
11,275.50	30,485.85	48,437.18	19,046.67	14,815.83	18,092.82	15,064.43
6,182.49	24,508.47	25,185.63	8,663.54	9,939.39	13,206.77	9,029.97
341.02	789.28	1,841.49	646.45	259.66	1,239.27	658.19
	222.14	243.99		6.89	64.50	102.20
137.35	311.97	571.61	145.73	19.46	299.02	136.53
	688.86	1,632.16		371.65		
123.81	222.96	238.38	125.10	108.57	278.41	215.29
		57.96				
325.00	1,413.89	1,356.22	753.07	361.67	901.69	623.20
140.21	626.25	2,528.12	418.05	98.47	444.97	297.09
15.05	32.21	230.84		8.43	16.68	41.15
		779.51			485.03	
26.25	7.30		1.28			17.06
718.00	931.00	2,998.00	1,365.00	474.00	883.00	817.00
8,009.18	29,754.33	37,663.91	12,118.22	11,648.19	17,819.34	11,937.68
3,266.32	731.52	10,773.27	6,928.45	3,167.64	273.48	3,126.75
181	337	934	264	173	299	193
46	103	89	64	45	93	63
8	10	8	12	5	10	5
235	450	1,031	340	223	402	261

STATEMENT

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Thornbury	Thorndale	Thornton	Thorold
Population.....	975	263	183	6,389
EARNINGS	\$	\$	\$	\$
Domestic service.....	9,721.63	3,917.59	1,941.32	40,271.44
Commercial light service.....	4,954.06	1,338.32	734.42	15,408.20
Commercial power service.....	3,718.05	2,752.65	249.38	78,455.97
Municipal power.....	424.96			5,204.14
Street lighting.....	1,913.70	404.50	25.00	4,715.19
Merchandise.....	10.48			
Miscellaneous.....		53.26	13.90	362.10
Total earnings.....	20,742.88	8,466.32	2,964.02	144,417.04
EXPENSES				
Power purchased.....	8,759.95	4,179.14	2,599.87	100,833.62
Substation operation.....	4,990.94			7,666.44
Substation maintenance.....				
Distribution system, operation and maintenance.....	644.09	80.89	199.96	5,018.60
Line transformer maintenance.....				152.55
Meter maintenance.....	123.52	1.62		1,332.92
Consumers' premises expenses.....		3.78		84.19
Street lighting, operation and maintenance.....	200.92	138.48	35.67	2,561.49
Promotion of business.....				
Billing and collecting.....	815.40	221.09	110.28	3,662.60
General office, salaries and expenses..	505.12	55.28	60.10	2,798.49
Undistributed expenses.....	336.39	14.10	12.44	1,782.46
Truck operation and maintenance.....				1,180.84
Interest.....	257.00			
Sinking fund and principal payments on debentures.....	265.58			
Depreciation.....	978.00	255.00	385.00	6,317.00
Other reserves.....				
Total operating costs and fixed charges.....	17,876.91	4,949.38	3,403.32	133,391.20
Net surplus.....	2,865.97	3,516.94		11,025.84
Net loss.....			439.30	
NUMBER OF CUSTOMERS				
Domestic service.....	330	92	74	1,585
Commercial light service.....	80	20	13	180
Power service.....	14	3	2	34
Total.....	424	115	89	1,799

“B”—Continued

Utilities for Year Ended December 31, 1950

Tilbury 2,848	Tillsonburg 4,991	Toronto 667,487	Toronto Twp. (V.A.)	Tottenham 594	Trafalgar Twp. (V.A.)
\$	\$	\$	\$	\$	\$
18,218.32	40,099.83	6,015,857.23	276,356.10	6,563.29	59,263.70
13,251.87	35,554.60	4,488,370.42	51,050.45	2,736.02	8,801.74
29,477.52	31,856.67	6,523,869.22	103,132.69	1,596.33	7,810.19
254.03	2,173.40	1,878,089.52	579.52	491.01	.....
5,009.47	5,868.12	551,730.40	9,755.50	1,037.16	145.00
.....	.....	27,728.36	.....	.....	.....
839.11	490.00	562,476.84	205.20	.....	354.96
67,050.32	116,042.62	20,048,121.99	441,079.46	12,423.81	76,375.59
43,352.02	75,608.04	*11,362,232.27	243,890.20	7,433.85	42,389.92
.....	1,880.97	415,293.74	.....	.....	.....
.....	.....	502,801.94	.....	.....	.....
3,714.39	7,541.25	719,774.29	25,872.57	992.62	11,606.08
142.22	516.06	102,677.85	5,310.82	.....	1,159.33
447.39	1,572.43	182,680.75	2,991.40	145.36	1,099.30
.....	441.94	475,858.39	1,279.23	.....	183.04
697.87	1,100.64	197,131.95	3,244.90	123.09	65.73
5.00	141.04	204,817.65	.....	.....	.....
1,402.63	3,594.22	668,976.58	17,593.47	580.00	2,907.80
1,479.75	7,232.90	618,986.15	25,156.12	396.93	1,805.93
390.24	1,850.26	978,161.07	.....	48.81	.....
694.20	2,003.49	.....	.....	296.11	.....
59.08	745.26	143,482.27	3,382.34	277.74	1,343.84
.....	477.98	243,500.00	3,916.55	553.80	1,116.48
3,254.00	6,754.00	1,578,194.63	23,454.00	727.00	4,090.00
.....	.....	†1,600,000.00	1,076.00	.....	200.00
55,638.79	111,460.48	19,994,569.53	357,167.60	11,575.31	67,967.45
11,411.53	4,582.14	53,552.46	83,911.86	848.50	8,408.14
.....
740	1,533	157,171	5,480	191	1,023
147	334	26,832	417	51	69
22	47	6,004	95	9	17
909	1,914	190,007	5,992	251	1,109

*Includes 1950 power adjustment.

†Provision for frequency standardization.

STATEMENT

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Trenton	Tweed	Uxbridge	Victoria Harbour 969
Population.....	9,766	1,659	1,734	
EARNINGS	\$	\$	\$	\$
Domestic service.....	81,464.40	14,525.62	19,410.92	6,743.26
Commercial light service.....	32,570.92	9,266.87	8,323.39	1,811.59
Commercial power service.....	98,969.44	11,408.10	6,544.15	
Municipal power.....	7,642.93	501.67	531.42	306.17
Street lighting.....	11,329.24	1,969.88	1,985.98	780.00
Merchandise.....			48.28	
Miscellaneous.....	3,803.63	423.49	354.41	57.21
Total earnings.....	235,780.56	38,095.63	37,198.55	9,698.23
EXPENSES				
Power purchased.....	191,815.80	19,744.61	18,134.99	4,589.96
Substation operation.....				
Substation maintenance.....	347.61			
Distribution system, operation and maintenance.....	4,756.51	2,980.25	1,459.86	600.50
Line transformer maintenance.....	514.55		90.55	15.00
Meter maintenance.....	4,362.98	864.35	295.06	115.30
Consumers' premises expenses.....	2,148.95		809.43	
Street lighting, operation and main- tenance.....	2,036.04	1,033.76	394.23	117.39
Promotion of business.....				
Billing and collecting.....	6,659.37	1,141.38	1,023.15	823.56
General office, salaries and expenses..	6,870.46	605.07	925.41	614.34
Undistributed expenses.....	1,811.43	6.00	12.28	64.22
Truck operation and maintenance.....	2,419.50			
Interest.....				
Sinking fund and principal payments on debentures.....				
Depreciation.....	11,732.00	1,146.00	1,383.00	484.00
Other reserves.....				
Total operating costs and fixed charges.....	235,475.20	27,521.42	24,527.96	7,424.27
Net surplus.....	305.36	10,574.21	12,670.59	2,273.96
Net loss.....				
NUMBER OF CUSTOMERS				
Domestic service.....	2,537	408	543	336
Commercial light service.....	324	110	119	35
Power service.....	64	21	16	1
Total.....	2,925	539	678	372

“B”—Continued

Utilities for Year Ended December 31, 1950

Walkerton 3,247	Wallaceburg 7,225	Wardsville 365	Warkworth 522	Waterdown 1,306	Waterford 1,677
\$	\$	\$	\$	\$	\$
33,529.14	49,596.32	3,558.20	4,758.45	16,364.43	13,685.51
23,018.30	33,117.47	2,591.97	2,340.87	4,678.64	5,750.11
17,073.59	199,947.95	41.24	676.14	2,053.14	5,955.17
550.17	6,042.40			193.36	332.54
4,308.41	5,858.39	720.00	712.21	1,390.00	1,663.00
	8,034.59				.74
1,570.51	3,972.85	114.27		144.53	377.98
80,050.12	306,569.97	7,025.68	8,487.67	24,824.10	27,765.05
38,625.35	220,948.88	4,899.49	5,269.32	16,511.95	18,215.07
	815.34				
4,125.64	9,564.60	550.42	250.68	1,111.67	2,490.39
234.88	327.83	100.76		166.01	158.85
861.29	2,133.15	15.60	88.66	270.20	142.49
73.08					
374.79	1,305.88	119.77	90.97	249.07	606.03
64.25	413.08				
2,888.21	3,812.21	176.71	271.97	1,068.29	908.41
2,474.70	6,916.76	155.69	75.45	183.80	447.22
745.79	2,303.56	12.33	15.61	98.16	101.08
1,489.26	3,438.57			311.69	428.89
469.99		1.96	75.76	1.91	
4,585.29			597.16		
3,030.00	11,692.00	288.00	384.00	1,417.00	968.00
60,042.52	263,671.86	6,320.73	7,119.58	21,389.75	24,466.43
20,007.60	42,898.11	704.95	1,368.09	3,434.35	3,298.62
864	1,935	87	161	361	515
179	326	23	48	53	86
21	69	1	2	10	14
1,064	2,330	111	211	424	615

STATEMENT

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Waterloo	Watford	Waubau- shene	Welland
Population.....	11,465	1,131	.....	15,729
EARNINGS	\$	\$	\$	\$
Domestic service.....	125,053.96	13,909.97	6,137.74	80,641.03
Commercial light service.....	49,424.24	8,187.19	1,770.44	69,460.43
Commercial power service.....	119,085.43	7,504.03	883.49	245,470.87
Municipal power.....	4,811.83	475.22	175.58	4,601.42
Street lighting.....	10,672.18	1,817.20	625.50	22,122.67
Merchandise.....	61.46	.....	.....	.....
Miscellaneous.....	211.29	630.66	18.00	13,330.67
Total earnings.....	309,320.39	32,524.27	9,610.75	435,627.09
EXPENSES				
Power purchased.....	240,550.90	22,962.88	5,070.54	329,818.15
Substation operation.....	3,650.56	.....	.....	12,919.41
Substation maintenance.....	1,676.26	.....	.....	1,640.42
Distribution system, operation and maintenance.....	13,331.78	2,169.70	386.92	10,896.51
Line transformer maintenance.....	1,338.29	120.37	118.49	1,576.92
Meter maintenance.....	2,977.03	339.24	204.63	11,396.64
Consumers' premises expenses.....	.....	14.94	.....	4,928.06
Street lighting, operation and main- tenance.....	1,645.89	203.56	180.70	2,559.57
Promotion of business.....	.....	31.04	.....	18.01
Billing and collecting.....	7,834.32	1,087.33	653.78	10,796.62
General office, salaries and expenses..	5,937.98	990.97	156.50	17,222.90
Undistributed expenses.....	3,527.24	131.03	61.30	9,647.56
Truck operation and maintenance.....	3,087.47	177.00	.....	3,457.43
Interest.....	59.18	.....	.....	.....
Sinking fund and principal payments on debentures.....	.....	.....	.....	.....
Depreciation.....	10,934.00	874.00	592.00	25,428.00
Other reserves.....	.....	.....	.....	.....
Total operating costs and fixed charges.....	296,550.90	29,102.06	7,424.86	442,306.20
Net surplus.....	12,769.49	3,422.21	2,185.89	.....
Net loss.....	.....	.....	.....	6,679.11
NUMBER OF CUSTOMERS				
Domestic service.....	3,024	350	301	3,614
Commercial light service.....	311	87	31	583
Power service.....	86	9	3	103
Total.....	3,421	446	335	4,300

“B”—Continued

Utilities for Year Ended December 31, 1950

Wellesley 560	Wellington 998	West Lorne 995	Weston 8,018	Westport 720	Wheatley 1,003	Whitby 7,021
\$	\$	\$	\$	\$	\$	\$
5,412.74	10,013.30	7,774.65	103,473.02	6,494.15	8,321.97	63,362.02
3,342.82	4,215.36	6,357.28	33,319.38	5,525.78	8,866.86	24,176.91
1,505.80	5,027.11	16,499.83	104,069.30		6,213.16	27,645.20
			4,722.22		869.34	4,091.07
861.82	1,147.07	1,368.92	10,030.20	1,120.08	2,104.00	6,295.39
195.90	339.76	2,187.23		147.02	49.40	1,155.86
						581.12
11,319.08	20,742.60	34,187.91	255,614.12	13,287.03	26,424.73	127,307.57
7,103.43	11,171.70	21,829.14	178,595.22	8,191.17	15,530.21	67,451.70
			2,224.36			778.59
366.55	902.38	1,179.28	22,274.71	792.26	1,709.23	6,468.09
49.75	73.75		1,672.65	104.50	94.68	493.65
10.24	116.08	76.71	999.36	166.74	164.55	1,557.96
196.95	15.83	93.54	2,539.33		237.02	2,384.78
160.64	137.97	341.94	2,571.17	88.12	449.86	1,807.19
						68.41
395.30	696.11	764.04	5,401.42	780.90	855.33	4,066.00
371.85	882.06	883.40	9,116.29	756.30	909.04	6,441.50
4.10	369.31	7.75		41.85	31.90	2,347.09
	355.68					668.08
		9.31	1,524.79	127.47	255.69	496.25
			500.00	1,127.73		453.70
634.00	1,253.00	1,645.00	11,188.00	456.00	1,721.00	7,896.00
			300.00			
9,292.81	15,973.87	26,830.11	238,907.30	12,633.04	21,958.51	103,378.99
2,026.27	4,768.73	7,357.80	16,706.82	653.99	4,466.22	23,928.58
159	390	288	2,175	182	297	1,365
54	77	77	243	64	89	202
7	11	14	50		13	35
220	478	379	2,468	246	399	1,602

STATEMENT

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Warton	Williams- burg 300	Winchester	Windermere
Population.....	1,983		1,152	135
EARNINGS	\$	\$	\$	\$
Domestic service.....	14,432.35	2,417.10	11,305.92	3,238.88
Commercial light service.....	12,563.23	2,339.93	8,904.51	1,900.22
Commercial power service.....	12,726.49	224.51	6,641.16	1,198.04
Municipal power.....	2,168.85			
Street lighting.....	2,385.55	505.00	1,434.00	325.00
Merchandise.....				
Miscellaneous.....	559.08	639.34	340.37	71.05
Total earnings.....	44,835.55	6,125.88	28,625.96	6,733.19
EXPENSES				
Power purchased.....	20,537.09	3,591.29	20,736.51	3,817.10
Substation operation.....				
Substation maintenance.....				
Distribution system, operation and maintenance.....	2,799.39	239.89	1,514.75	380.79
Line transformer maintenance.....	163.21		33.59	
Meter maintenance.....	458.30	160.55	126.73	63.35
Consumers' premises expenses.....	238.53	29.95	93.00	
Street lighting, operation and main- tenance.....	407.88	98.87	268.01	46.88
Promotion of business.....				
Billing and collecting.....	1,004.53	531.96	1,225.39	219.60
General office, salaries and expenses..	1,509.24	203.15	417.10	87.27
Undistributed expenses.....	484.10			3.49
Truck operation and maintenance.....	602.84			
Interest.....	408.58			80.38
Sinking fund and principal payments on debentures.....	2,592.49			939.78
Depreciation.....	1,579.00	463.00	763.00	364.00
Other reserves.....				
Total operating costs and fixed charges.....	32,785.18	5,318.66	25,178.08	6,002.64
Net surplus.....	12,050.37	807.22	3,447.88	730.55
Net loss.....				
NUMBER OF CUSTOMERS				
Domestic service.....	542	95	351	85
Commercial light service.....	128	37	94	14
Power service.....	22	1	4	2
Total.....	692	133	449	101

“B”—Continued

Utilities for Year Ended December 31, 1950

Windsor 121,011	Wingham 2,611	Woodbridge 1,592	Woodstock 14,710	Woodville 375	Wyoming 648
\$	\$	\$	\$	\$	\$
1,098,079.16	31,992.35	17,097.33	166,606.51	3,734.15	4,601.19
644,827.71	18,986.17	7,301.76	90,773.64	1,689.86	2,377.14
1,109,855.36	23,234.34	29,101.03	154,071.82	650.46	1,190.88
31,386.83	2,061.01	2,150.85	9,006.61		
139,625.90	3,737.08	1,362.00	11,830.90	745.99	688.50
51,788.43	1,111.11				
35,992.62	677.68	385.82	1,323.43	189.05	85.04
3,111,556.01	81,799.74	57,398.79	433,612.91	7,009.51	8,942.75
*1,884,198.11	33,306.36	48,587.03	294,082.26	2,848.17	5,600.56
79,454.12	4,274.19		15,491.25		
31,232.68					
109,495.48	3,785.08	2,947.19	18,577.22	733.75	141.39
14,497.40	328.82	119.01	319.73		30.87
33,931.88	825.34	496.81	6,361.20	226.90	10.56
113,961.21	3,322.92	32.98	12,194.64	74.04	
65,412.95	538.17	252.80	2,866.68	156.29	189.55
9,669.00			647.50		
101,472.51	2,909.92	1,573.12	8,485.58	556.72	278.16
73,124.18	4,087.73	857.76	8,995.77	148.65	218.12
8,727.66	466.91		3,844.96	1.45	6.50
24,527.34	2,005.81		2,442.55		
15,286.09	437.49		220.93		11.55
	2,700.61				
218,024.00	5,006.00	997.00	13,578.00	209.00	480.00
2,783,014.61	63,995.35	55,863.70	388,108.27	4,954.97	6,967.26
328,541.40	17,804.39	1,535.09	45,504.64	2,054.54	1,975.49
29,565	737	409	4,175	133	202
3,915	157	73	560	34	52
621	27	10	125	2	4
34,101	921	492	4,860	169	258

*Includes 1950 cost adjustment.

STATEMENT

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Concluded

THUNDER

Municipality.....	York Twp.	Zurich	SOUTHERN ONTARIO SYSTEM SUMMARY	Fort William 34,409
Population.....	95,669	572		
EARNINGS	\$	\$	\$	\$
Domestic service.....	871,508.94	6,689.56	26,486,590.15	450,333.56
Commercial light service.....	180,037.81	5,034.35	13,927,481.70	193,412.96
Commercial power service.....	285,774.75	245.86	22,939,736.93	374,020.61
Municipal power.....	8,115.43	140.97	2,835,821.75	16,078.77
Street lighting.....	54,804.72	735.00	2,423,583.57	31,239.70
Merchandise.....			214,826.44	
Miscellaneous.....	6,689.66	177.67	1,177,063.82	16,449.30
Total earnings.....	1,406,931.31	13,023.41	70,005,104.36	1,081,534.90
EXPENSES				
Power purchased.....	876,806.07	8,663.62	44,068,436.35	723,857.03
Substation operation.....	7,570.87		1,353,357.23	28,187.14
Substation maintenance.....	6,413.95		658,871.80	5,656.09
Distribution system, operation and maintenance.....	37,004.19	670.62	2,563,258.44	20,462.67
Line transformer maintenance.....	15,266.19	34.73	323,709.24	4,233.13
Meter maintenance.....	23,763.20	16.91	708,358.47	13,426.33
Consumers' premises expenses.....	36,878.32		1,211,019.94	14,710.58
Street lighting, operation and main- tenance.....	16,788.22	268.56	670,014.12	9,084.87
Promotion of business.....			274,750.37	472.61
Billing and collecting.....	94,583.71	446.99	2,233,837.73	36,579.27
General office, salaries and expenses..	58,376.00	377.42	2,056,670.94	21,480.15
Undistributed expenses.....		27.39	1,308,669.39	2,204.77
Truck operation and maintenance.....			259,409.84	661.58
Interest.....			462,750.69	28,387.11
Sinking fund and principal payments on debentures.....			958,864.33	5,254.84
Depreciation.....	56,377.00	655.00	3,907,668.16	37,835.00
Other reserves.....	*103,363.59		1,765,378.03	1,000.00
Total operating costs and fixed charges.....	1,333,191.31	11,161.24	64,785,025.07	953,493.17
Net surplus.....	73,740.00	1,862.17	5,220,079.29	128,041.73
Net loss.....				
NUMBER OF CUSTOMERS				
Domestic service.....	26,089	191	709,528	9,475
Commercial light service.....	1,645	51	98,954	1,382
Power service.....	303	2	17,737	197
Total.....	28,037	244	826,219	11,054

*\$100,000.00 provision for frequency standardization.

"B"—Continued

Utilities for Year Ended December 31, 1950

BAY SYSTEM

Nipigon Twp. (V.A.)	Port Arthur 31,842	Red Rock Imp. Dist. 1,411	Schreiber Twp. 1,849	Terrace Bay Imp. Dist. 1,270	THUNDER BAY SYSTEM SUMMARY
\$	\$	\$	\$	\$	\$
14,367.26	357,765.95	10,338.10	23,371.86	22,501.47	878,678.20
14,825.69	188,569.16	8,363.87	12,083.22	9,128.00	426,382.90
1,326.02	398,382.69	103.09	3,380.49	7,010.30	784,223.20
548.04	34,269.50	542.22			51,438.53
1,151.00	35,120.25	927.00	1,758.66	1,297.92	71,494.53
600.59	19,235.63			155.66	36,441.18
32,818.60	1,033,343.18	20,274.28	40,594.23	40,093.35	2,248,658.54
13,783.90	739,677.32	8,570.08	12,100.48	23,595.28	1,521,584.09
	40,170.15				68,357.29
	13,285.38				18,941.47
3,815.30	36,099.33	815.17	2,638.29	246.83	64,077.59
230.71	3,289.69	4.16	4.00	11.29	7,772.98
466.27	15,072.85	16.33	390.27	65.23	29,437.28
		5.61			14,716.19
636.18	6,895.39	171.33	356.62	209.37	17,353.76
	1,967.90				2,440.51
1,145.24	24,980.73	898.63	2,011.89	1,352.02	66,967.78
1,326.68	30,072.94	473.15	930.76	587.73	54,871.41
404.28	7,875.25		206.71	13.51	10,704.52
785.40	23,335.21		171.05		24,953.24
		903.34	1,985.10		31,275.55
		1,170.00	4,894.45		11,319.29
1,335.17	65,218.18	804.44	1,029.00	1,665.00	107,886.79
	3,000.00				4,000.00
23,929.13	1,010,940.32	13,832.24	26,718.62	27,746.26	2,056,659.74
8,889.47	22,402.86	6,442.04	13,875.61	12,347.09	191,998.80
397	8,362	196	418	252	19,100
100	1,121	20	54	22	2,699
5	147	2	3	1	355
502	9,630	218	475	275	22,154

STATEMENT

Operating Reports of Municipal Electrical

NORTHERN ONTARIO PROPERTIES

Municipality.....	Capreol	Larder Lake Twp. (V.A.)	*Latchford	McGarry Imp. Dist.
Population.....	1,897	1,960	532	2,187
EARNINGS	\$	\$	\$	\$
Domestic service.....	22,302.83	20,301.04	1,504.13	19,252.93
Commercial light service.....	6,696.90	7,727.41	1,006.40	7,934.82
Commercial power service.....	8,236.42	425.67	236.81	
Municipal power.....	694.82	1,119.96		
Street lighting.....	2,300.97	1,436.40	346.87	707.34
Merchandise.....	33.43			
Miscellaneous.....	96.00			
Total earnings.....	40,361.37	31,010.48	3,094.21	27,895.09
EXPENSES				
Power purchased.....	27,771.15	17,906.81	1,244.09	19,818.36
Substation operation.....	88.12			
Substation maintenance.....				
Distribution system, operation and maintenance.....	3,004.24	1,211.71	69.01	169.39
Line transformer maintenance.....	119.75	98.62		82.25
Meter maintenance.....	325.57	263.60	19.23	56.41
Consumers' premises expenses.....	1.68			
Street lighting, operation and main- tenance.....	917.54	310.07	11.34	506.88
Promotion of business.....				
Billing and collecting.....	2,047.00	1,943.35	253.41	1,709.02
General office, salaries and expenses..	1,396.02	1,960.09	165.51	919.63
Undistributed expenses.....	212.36	95.48		7.15
Truck operation and maintenance.....	822.62			
Interest.....		702.00		560.00
Sinking fund and principal payments on debentures.....		900.00		500.00
Depreciation.....	1,456.00	1,253.00	329.00	857.00
Other reserves.....				
Total operating costs and fixed charges.....	38,162.05	26,644.73	2,091.59	25,186.09
Net surplus.....	2,199.32	4,365.75	1,002.62	2,709.00
Net loss.....				
NUMBER OF CUSTOMERS				
Domestic service.....	542	463	99	298
Commercial light service.....	82	88	24	55
Power service.....	2	5	3	
Total.....	626	556	126	353

*7 months' operation.

"B"—Concluded

Utilities for Year Ended December 31, 1950

North Bay 18,295	Sioux Lookout 2,225	Sudbury 47,054	NORTHERN ONTARIO PROPERTIES SUMMARY	ALL SYSTEMS GRAND SUMMARY
\$	\$	\$	\$	\$
175,963.27	31,261.83	430,548.53	701,134.56	28,066,402.91
90,013.10	21,471.50	202,019.05	336,869.18	14,690,733.78
72,835.19	4,552.43	62,912.55	149,199.07	23,873,159.20
5,650.09	1,935.58	11,313.30	20,713.75	2,907,974.03
15,538.62	3,159.00	34,188.44	57,677.64	2,552,755.74
1,689.64			1,723.07	216,549.51
		2,355.41	2,451.41	1,215,956.41
361,689.91	62,380.34	743,337.28	1,269,768.68	73,523,531.58
232,191.22	33,147.24	477,941.41	810,020.28	46,400,040.72
2,847.35		16,903.67	19,839.14	1,441,553.66
		1,322.83	1,322.83	679,136.10
16,926.76	3,807.81	29,509.62	54,698.54	2,682,034.57
1,025.59	80.40	2,850.32	4,256.93	335,739.15
6,569.53	454.49	17,489.43	25,178.26	762,974.01
8,893.97		8,980.16	17,875.81	1,243,611.94
4,000.39	363.94	12,352.87	18,463.03	705,830.91
				277,190.88
22,315.70	3,940.23	49,592.89	81,801.60	2,382,607.11
20,786.09	1,806.04	24,086.70	51,120.08	2,162,662.43
8,582.83	375.48	2,686.20	11,959.50	1,331,333.41
3,958.47	1,094.90	12,071.46	17,947.45	302,310.53
739.16		1,110.96	3,112.12	497,138.36
		9,334.34	10,734.34	980,917.96
14,583.00	1,241.00	41,200.00	60,919.00	4,076,473.95
				1,769,378.03
343,420.06	46,311.53	707,432.86	1,189,248.91	68,030,933.72
18,269.85	16,068.81	35,904.42	80,519.77	5,492,597.86
4,324	658	10,410	16,794	745,422
788	104	1,328	2,469	104,122
102	11	157	280	18,372
5,214	773	11,895	19,543	867,916

STATEMENT "C"

(pages 240 to 257)

Cost of Power to Municipalities and Rates to Customers for Domestic
Service—Commercial Light Service—Power Service in Ontario
Urban Municipalities Served by The Hydro-Electric
Power Commission of Ontario for the
year 1950

STATEMENT "D"

(pages 262 to 277)

Statistics relating to the Supply of Electrical Energy to Customers
in Ontario Urban Municipalities Served by
The Hydro-Electric Power Commission
of Ontario for the year 1950

STATEMENT "C"**Cost of Power to Municipalities and Rates to Customers for
Domestic Service—Commercial Light Service—Power Service
in Ontario Urban Municipalities Served by The
Hydro-Electric Power Commission of Ontario
for the year 1950**

Statement "C" presents schedules of rates for domestic, commercial light, and power services in each municipality receiving service through The Hydro-Electric Power Commission of Ontario, with the exception of those served through the facilities of the rural power districts. The statement also shows, as an important factor in determining rates to customers, the wholesale cost per kilowatt of the power supplied by the Commission to each municipality on a wholesale cost basis.

Cost of Power to Municipalities

The figures in the first column represent the total cost for the year of the power supplied by the Commission to the municipality, divided by the number of kilowatts supplied. Details respecting these costs are given in the "Cost of Power" tables relating to the systems, as presented in Appendix II, and an explanation of the items making up the cost of power is given in the introduction to Section II.

Rates to Customers

The Power Commission Act stipulates that "The rates chargeable by any municipal corporation generating or receiving and distributing electrical power or energy shall be subject (at all times) to the approval and control of the Commission."* In accordance with the Act and in pursuance of its fundamental principle of providing service at cost, the Commission requires that accurate cost records be kept in each municipality, and exercises a continuous supervision over the rates charged to customers.

At the commencement of its operations, the Commission introduced scientifically-designed rate schedules for each of the three main classes into which electrical service is usually divided, namely: residential or domestic service, commercial light service, and power service, and the schedules in use during the past year are presented in the tables of this statement.

Domestic Service: Domestic rates apply to electrical service in residences, for all household purposes, including lighting, cooking, and the operation of all domestic appliances.

*R.S.O. 1950, Ch. 281, Sec. 104.

Commercial Light Service: Electrical energy used in stores, offices, churches, schools, public halls and institutions, hotels, public boarding-houses, and in all other premises for commercial purposes, including sign and display lighting, is billed at commercial lighting rates.

Water-Heater Service: For customers using continuous electric water-heaters, low flat rates are available consisting of a fixed charge per month dependent on the capacity of the heating element and the cost of power to the municipal utility. Such heaters are so connected that the electrical energy they consume is not metered. In addition, booster water-heating equipment can be used to furnish extra requirements beyond the capacity of the continuous heater; current for the booster heater is measured and charged for at the regular rates.

Power Service: The rate schedules given for power service in statement "C" are those governing retail supply to all power customers except certain large power customers served directly by the Commission on behalf of the systems of municipalities.

The rates for power service, as given in the tables, are the rates for 24-hour unrestricted power at secondary distribution voltage. For service at primary distribution voltage the rates are usually 5 per cent lower than those stated. In municipalities where load conditions and other circumstances permit, lower rates are available for "restricted power", discounts additional to those listed in the table being applicable.

The service charge relates to the connected load or to the maximum demand where a demand meter is installed. The prompt payment discount of 10 per cent on the total monthly bill is given for settlement within 10 days.

Early in 1949 the Commission changed the method of billing the power demand of industrial power customers by using kilowatt instead of horsepower. This did not constitute a change in power cost to the customer, but was used to simplify billing procedure. In the table below, the actual basic rate—i.e. the net yearly charge computed by assuming 130 hours' monthly use of one horsepower—in force during 1950 is shown as in previous years, but the former service charge per horsepower per month is now shown as the equivalent service charge per kilowatt per month. In cases where special local discounts were in force, equivalent reductions in service charge and energy rates have been incorporated.

In the table of rates for power service there is a column headed "Basis of rate 130 hours' monthly use of demand per hp." This column shows approximately the net annual amount payable for a demand of one horsepower, assuming a monthly use of 130 hours, which includes 30 hours' use each month at the third energy rate. Broadly, the figures in this column serve to indicate approximately the relative cost of power service in the different municipalities listed.

STATEMENT

**Cost of Power to Municipalities and Rates to Customers for
for the Year 1950, in Urban Municipalities Served**

Municipality C—City T—Town (Pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to munici- pality on a kilowatt basis	Domestic service					
		Service charge per month**	First rate		All addition- al per kwh	Minimum gross monthly bill	Prompt pay- ment dis- count
			Number of kwh per month	Per kwh per month			
	\$	cents		cents	cents	\$	%
Acton.....T	35.05	.....	60	2.6	1.1	0.83	10
Agincourt.....	38.82	.....	60	3.0	1.0	0.83	10
Ailsa Craig.....	42.47	.....	60	2.8	1.0	0.83	10
Alexandria.....T	38.49	.....	60	3.0	1.0	1.11	10
Alliston.....	37.54	.....	55	3.5	1.0	1.11	10
Almonte.....T	37.02	.....	60	2.5	1.0	0.83	10
Alvinston.....	49.25	.....	60	3.5	1.0	0.83	10
Amherstburg.....T	38.86	.....	60	2.7	1.0	1.11	10
Ancaster Twp.....	38.50	.....	60	4.2	1.2	1.11	10
Apple Hill.....	37.76	.....	60	4.0	1.0	1.39	10
Arkona.....	43.51	.....	60	4.0	1.0	1.11	10
Arnprior.....T	31.77	.....	60	2.8	0.8	0.83	10
Arthur.....	47.47	.....	45	4.5	1.2	1.11	10
Athens.....	43.07	33-66	50	4.5	1.5	1.11	10
Atikokan.....		.....	60	4.4	*2.1 1.1	+1.67 +2.25	10
Aurora.....T	33.58	.....	60	2.6	1.0	0.83	10
Aylmer.....T	37.20	.....	60	2.2	0.8	0.83	10
Ayr.....	38.87	.....	60	3.0	1.1	1.11	10
Baden.....	34.43	.....	60	3.0	1.1	0.83	10
Bala.....		33-66	50	3.7	1.2	1.66	10
Bancroft.....	52.14	.....	60	6.0	2.0	1.67	10
Barrie.....T	30.83	.....	60	2.4	0.8	0.83	10
Barry's Bay.....	52.20	.....	60	6.0	2.0	2.78	10
Bath.....	35.57	.....	60	4.8	1.5	2.22	10
Beachville.....	36.86	.....	60	2.8	0.9	0.83	10
Beamsville.....	34.08	.....	60	2.2	0.8	0.83	10
Beardmore.....		.....	60	4.4	*2.1 1.1	+1.67 +2.25	10
Beaverton.....	38.30	.....	60	2.8	1.0	1.11	10
Beeton.....	46.44	.....	45	4.0	1.2	1.39	10
Belle River.....	40.35	.....	60	3.5	1.0	1.39	10

**Where domestic service charge has not been abolished the charge is 33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when 2,000 watts or more. Where a service charge of 56 cents is used it applies to either 2-wire or 3-wire service.

“C”

Domestic Service—Commercial Light Service—Power Service

by The Hydro-Electric Power Commission of Ontario

Commercial light service					Power service					
Service charge per 100 watts min 1,000 watts	First 100 hrs per month per kwh	All additional per kwh	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours* monthly use of demand per hp	Service charge per kw per month	First 50 hrs per month per kwh	Second 50 hrs per month per kwh	All additional per kwh	Prompt payment discount
cents	cents	cents	\$	%	\$	\$	cents	cents	cents	%
5.0	2.0	0.7	0.83	10	20.00	1.20	1.4	0.9	0.30	10
5.0	2.6	0.6	0.83	10	20.00	1.20	1.4	0.9	0.30	10
5.0	2.3	0.7	0.83	10	24.00	1.20	2.1	1.4	0.30	10
5.0	2.6	0.8	1.11	10	35.00	1.35	3.5	2.3	0.33	10
5.0	3.2	0.9	1.11	10	27.00	1.35	2.3	1.5	0.33	10
5.0	2.3	1.0	0.83	10	20.00	1.20	1.4	0.9	0.30	10
5.0	3.0	0.9	0.83	10	30.00	1.35	2.8	1.8	0.33	10
5.0	2.2	0.6	1.11	10	22.00	1.20	1.7	1.2	0.30	10
5.0	3.6	1.0	1.11	10	31.00	1.35	2.9	1.9	0.33	10
5.0	3.5	1.0	1.39	10	30.00	1.35	2.8	1.8	0.33	10
5.0	3.5	0.8	1.11	10	39.00	1.35	4.1	2.7	0.33	10
5.0	2.5	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	10
5.0	4.0	1.0	1.11	10	35.00	1.35	3.5	2.3	0.33	10
5.0	4.5	1.0	1.11	10	39.00	1.35	4.1	2.7	0.33	10
5.0	4.4	1.1	†1.67 ‡2.25	10	37.00	1.35	3.8	2.5	0.33	10
5.0	1.6	0.4	1.11	10	20.00	1.20	1.4	0.9	0.30	10
5.0	1.8	0.4	0.83	10	19.00	1.00	1.5	1.1	0.25	10
5.0	2.5	0.9	1.11	10	24.00	1.20	2.1	1.4	0.30	10
5.0	2.5	0.8	0.83	10	22.00	1.20	1.7	1.2	0.30	10
5.0	3.7	0.8	1.66	10	20.00	1.20	1.4	0.9	0.30	10
5.0	5.0	2.0	1.67	10	35.00	1.35	3.5	2.3	0.33	10
5.0	2.0	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	10
5.0	5.0	2.0	2.78	10	35.00	1.35	3.5	2.3	0.33	10
5.0	5.0	1.0	2.22	10	35.00	1.35	3.5	2.3	0.33	10
5.0	2.4	0.5	0.83	10	19.00	1.00	1.5	1.1	0.25	10
5.0	1.8	0.5	0.83 †1.67	10	18.00	1.00	1.4	0.9	0.25	10
5.0	4.4	1.1	‡2.25	10	37.00	1.35	3.8	2.5	0.33	10
5.0	2.0	0.8	1.11	10	24.00	1.20	2.1	1.4	0.30	10
5.0	3.5	1.0	1.39	10	30.00	1.35	2.8	1.8	0.33	10
5.0	2.9	0.7	1.39	10	32.00	1.35	3.1	2.0	0.33	10

*2-wire service next 80 kwh, 3-wire service next 180 kwh.

†2-wire service.

‡3-wire service.

STATEMENT

**Cost of Power to Municipalities and Rates to Customers for
for the Year 1950, in Urban Municipalities Served**

Municipality	Annual cost to the Commission on the works to serve electrical energy to munici- pality on a kilowatt basis	Domestic service					
		Service charge per month	First rate		All addition- al per kwh	Minimum gross monthly bill	Prompt pay- ment dis- count
			Number of kwh per month	Per kwh per month			
c—City T—Town (Pop. 2,000 or more)							
	\$	cents		cents	cents	\$	%
Belleville.....C	29.57	.....	60	1.8	0.8	0.83	10
Blenheim.....T	39.39	.....	60	2.5	0.9	1.11	10
Bloomfield.....	44.09	.....	60	2.5	0.9	0.83	10
Blyth.....	39.70	.....	60	2.9	1.0	1.11	10
Bobcaygeon.....	52.19	.....	60	5.0	1.25	2.22	10
Bolton.....	37.55	.....	60	2.9	1.0	0.83	10
Bothwell.....	44.15	.....	60	2.5	0.8	0.83	10
Bowmanville.....T	34.29	.....	60	3.0	1.0	0.83	10
Bradford.....	37.83	.....	45	4.2	1.0	1.39	10
Braeside.....	32.40	.....	50	4.0	1.3	0.83	10
Brampton.....T	31.63	.....	60	2.3	1.0	0.83	10
Brantford.....C	32.31	.....	60	2.0	1.0	0.83	10
Brantford Twp.....	32.82	.....	60	3.4	1.3	1.11	10
Brechin.....	42.68	.....	45	5.5	1.2	1.67	10
Bridgeport.....	36.01	.....	60	3.0	0.9	0.83	10
Brigden.....	46.52	.....	60	3.0	0.9	1.11	10
Brighton.....	34.49	.....	60	3.5	0.9	0.83	10
Brockville.....T	31.69	.....	60	2.0	0.8	0.83	10
Brussels.....	41.17	.....	60	3.2	1.0	1.11	10
Burford.....	35.82	.....	60	2.8	1.0	0.83	10
Burgessville.....	39.36	.....	60	4.0	1.0	1.11	10
Burks Falls.....	30.11	.....	50	5.0	1.5	2.50	10
Burlington.....T	32.48	.....			Special		
Burlington Beach or Hamilton Beach.....T		.....	60	3.5	1.1	0.83	10
Cache Bay.....		.....	x60	6.0	2.0	1.67	10
Caledonia.....	36.19	.....	60	2.3	1.0	1.11	10
Campbellville.....	40.78	.....	60	3.0	1.3	1.11	10
Cannington.....	37.80	.....	60	3.2	1.0	1.11	10
Capreol.....		.....	50	3.6	1.0	1.39	10
Cardinal.....	34.00	.....	55	2.8	1.1	1.11	10
Carleton Place.....T	33.72	.....	55	2.5	0.9	0.83	10
Cayuga.....	43.83	.....	60	3.5	1.0	1.39	10
Chatham.....C	34.02	.....	60	3.2	1.0	0.83	10
Chatsworth.....	37.45	.....	50	3.0	1.0	1.39	10
Chesley.....	34.80	.....	60	2.7	1.0	1.11	10
Chesterville.....	34.08	.....	55	2.3	0.9	0.83	10
Chippawa.....	27.45	.....	60	2.2	1.0	0.83	10
Clifford.....	43.56	.....	55	3.3	1.1	1.11	10
Clinton.....T	37.21	.....	60	2.5	0.8	0.83	10
Cobden.....	35.19	.....	40	2.8	1.0	1.11	10

xTemporary rate.

“C”—Continued

Domestic Service—Commercial Light Service—Power Service
by The Hydro-Electric Power Commission of Ontario

Commercial light service					Power service					
Service charge per 100 watts min 1,000 watts	First 100 hrs per month per kwh	All additional per kwh	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per hp	Service charge per kw per month	First 50 hrs per month per kwh	Second 50 hrs per month per kwh	All additional per kwh	Prompt payment discount
cents	cents	cents	\$	%	\$	\$	cents	cents	cents	%
5.0	1.6	0.6	0.83	10	17.00	1.00	1.3	0.8	0.25	10
5.0	2.1	0.6	1.11	10	25.00	1.35	2.0	1.3	0.33	10
5.0	2.3	0.7	0.83	10	30.00	1.35	2.8	1.8	0.33	10
5.0	2.4	0.8	1.11	10	30.00	1.35	2.8	1.8	0.33	10
5.0	5.0	1.0	2.22	10	35.00	1.35	3.5	2.3	0.33	10
5.0	2.5	0.8	0.83	10	22.00	1.20	1.7	1.2	0.30	10
5.0	1.9	0.4	0.83	10	24.00	1.20	2.1	1.4	0.30	10
5.0	2.4	0.8	0.83	10	21.00	1.20	1.6	1.0	0.30	10
5.0	3.7	1.0	1.39	10	25.00	1.35	2.0	1.3	0.33	10
5.0	4.0	1.0	0.83	10	25.00	1.35	2.0	1.3	0.33	10
5.0	1.9	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	10
25.0	1.7	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	10
5.0	2.9	1.0	1.11	10	24.00	1.20	2.1	1.4	0.30	10
5.0	4.8	0.8	1.67	10	34.00	1.35	3.4	2.2	0.33	10
5.0	2.7	0.6	0.83	10	20.00	1.20	1.4	0.9	0.30	10
5.0	2.5	0.7	1.11	10	30.00	1.35	2.8	1.8	0.33	10
5.0	3.0	0.7	0.83	10	21.00	1.20	1.6	1.0	0.30	10
5.0	1.6	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	10
5.0	2.7	0.8	1.11	10	30.00	1.35	2.8	1.8	0.33	10
5.0	2.3	0.9	0.83	10	22.00	1.20	1.7	1.2	0.30	10
5.0	3.5	0.8	1.11	10	31.00	1.35	2.9	1.9	0.33	10
5.0	4.5	1.5	2.50	10	35.00	1.35	3.5	2.3	0.33	10
		Special					Special			
5.0	3.2	0.7	0.83	10	27.00	1.35	2.3	1.5	0.33	10
x5.0	5.0	2.0	1.67	10						
5.0	1.9	0.8	1.11	10	24.00	1.20	2.1	1.4	0.30	10
5.0	2.8	1.1	1.11	10	35.00	1.35	3.5	2.3	0.33	10
5.0	2.8	0.9	1.11	10	26.00	1.35	2.2	1.4	0.33	10
5.0	3.2	0.8	1.39	10	31.00	1.35	2.9	1.9	0.33	10
5.0	2.3	1.0	1.11	10	27.00	1.35	2.3	1.5	0.33	10
5.0	2.0	0.7	0.83	10	18.00	1.00	1.4	0.9	0.25	10
5.0	3.0	0.8	1.39	10	30.00	1.35	2.8	1.8	0.33	10
5.0	2.6	0.8	0.83	10	21.00	1.20	1.6	1.0	0.30	10
5.0	2.5	0.9	1.39	10	30.00	1.35	2.8	1.8	0.33	10
5.0	2.3	1.0	1.11	10	23.00	1.20	1.9	1.3	0.30	10
5.0	2.0	0.9	0.83	10	22.00	1.20	1.7	1.2	0.30	10
5.0	1.8	0.7	0.83	10	19.00	1.00	1.5	1.1	0.25	10
5.0	3.5	1.0	1.11	10	32.00	1.35	3.1	2.0	0.33	10
5.0	2.2	0.7	0.83	10	25.00	1.35	2.0	1.3	0.33	10
5.0	2.5	1.0	1.11	10	35.00	1.35	3.5	2.3	0.33	10

z—Minimum 500 watts.

STATEMENT

**Cost of Power to Municipalities and Rates to Customers for
for the Year 1950, in Urban Municipalities Served**

Municipality	Annual cost to the Commission on the works to serve electrical energy to munici- pality on a kilowatt basis	Domestic service					
		Service charge per month	First rate		All addition- al per kwh	Minimum gross monthly bill	Prompt pay- ment dis- count
			Number of kwh per month	Per kwh per month			
c—City T—Town (Pop. 2,000 or more)							
	\$	cents		cents	cents	\$	%
Cobourg.....T	34.61	.....	60	2.9	1.1	0.83	10
Colborne.....	35.11	.....	60	3.8	1.0	0.83	10
Coldwater.....	35.60	33-66	55	2.5	1.0	1.11	10
Collingwood.....T	33.25	.....	60	2.3	1.0	1.11	10
Comber.....	42.96	.....	60	3.1	1.0	0.83	10
Cookstown.....	36.67	.....	45	4.3	1.0	1.39	10
Cottage Cove Townsite.....		.....	60	4.4	*2.1	†1.67	10
Cottam.....	41.48	.....	60	3.0	1.1	†2.25	10
Courtright.....	47.95	.....	60	3.0	1.0	0.83	10
Creemore.....	36.02	.....	60	1.1	1.1	1.11	10
		.....	50	3.1	1.0	1.39	10
Dashwood.....	45.94	.....	60	3.9	1.3	0.83	10
Delaware.....	36.15	.....	60	3.4	1.0	0.83	10
Delhi.....T	37.31	.....	60	3.2	1.0	0.83	10
Deseronto.....	39.64	.....	60	3.9	1.0	0.83	10
Dorchester.....	38.56	.....	60	2.6	1.0	0.83	10
Drayton.....	45.34	.....	55	4.0	1.3	1.11	10
Dresden.....T	42.78	.....	60	2.8	1.0	1.11	10
Drumbo.....	39.02	.....	60	3.5	1.0	1.11	10
Dublin.....	43.57	.....	60	3.5	1.1	1.11	10
Dundalk.....	36.38	.....	60	2.7	1.0	1.11	10
Dundas.....T	31.80	.....	60	2.5	1.0	0.83	10
Dunnville.....T	33.97	.....	60	2.1	0.9	0.83	10
Durham.....T	36.44	.....	60	2.7	1.1	1.11	10
Dutton.....	39.40	.....	60	2.3	1.0	0.83	10
East York Twp.....	32.14	.....	60	2.4	1.1	0.83	10
Elmira.....T	33.43	.....	60	2.9	0.9	1.11	10
Elmvale.....	36.17	.....	60	2.6	1.0	0.83	10
Elmwood.....	37.89	.....	50	3.5	0.9	1.11	10
Elora.....	37.36	.....	60	3.0	1.1	1.11	10
Embro.....	39.55	.....	60	3.3	1.1	0.83	10
Erieau.....	46.32	.....	60	3.7	1.0	1.11	10
Erie Beach.....	47.07	.....	60	4.5	1.2	1.39	10
Erin.....	51.08	.....	40	5.0	1.5	1.39	10
Essex.....T	38.46	.....	60	2.8	0.9	1.11	10
Etobicoke Twp.....	32.45	.....	60	2.5	1.0	0.83	10
Exeter.....T	38.84	.....	60	2.6	1.0	0.83	10
Fergus.....T	34.85	.....	60	2.9	1.0	1.11	10
Finch.....	38.91	.....	45	3.0	1.2	1.39	10
Flesherton.....	34.80	.....	60	2.8	1.0	1.11	10
Fonthill.....	32.51	.....	60	2.8	1.0	0.83	10

*2-wire service next 80 kwh, 3-wire service next 180 kwh.

†2-wire service.

‡3-wire service.

“C”—Continued

Domestic Service—Commercial Light Service—Power Service
by The Hydro-Electric Power Commission of Ontario

Commercial light service					Power service					
Service charge per 100 watts min 1,000 watts	First 100 hrs per month per kwh	All additional per kwh	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per hp	Service charge per kw per month	First 50 hrs per month per kwh	Second 50 hrs per month per kwh	All additional per kwh	Prompt payment discount
cents	cents	cents	\$	%	\$	\$	cents	cents	cents	%
5.0	2.4	0.9	0.83	10	21.00	1.20	1.6	1.0	0.30	10
5.0	3.0	1.0	0.83	10	30.00	1.35	2.8	1.8	0.33	10
5.0	2.5	1.0	1.11	10	28.00	1.35	2.5	1.6	0.33	10
5.0	1.8	1.0	1.11	10	19.00	1.00	1.5	1.1	0.25	10
5.0	2.7	0.8	0.83	10	29.00	1.35	2.6	1.7	0.33	10
5.0	3.8	1.0	1.39	10	25.00	1.35	2.0	1.3	0.33	10
			†1.67							
5.0	4.4	1.1	†2.25	10	37.00	1.35	3.8	2.5	0.33	10
5.0	2.6	0.8	0.83	10	27.00	1.35	2.3	1.5	0.33	10
5.0	3.2	1.0	1.11	10	39.00	1.35	4.1	2.7	0.33	10
5.0	2.6	0.9	1.39	10	21.00	1.20	1.6	1.0	0.30	10
5.0	3.4	1.1	0.83	10	34.00	1.35	3.4	2.2	0.33	10
5.0	3.0	0.8	0.83	10	30.00	1.35	2.8	1.8	0.33	10
5.0	2.6	0.8	0.83	10	25.00	1.35	2.0	1.3	0.33	10
5.0	3.5	0.9	0.83	10	28.00	1.35	2.5	1.6	0.33	10
5.0	2.1	0.8	0.83	10	24.00	1.20	2.1	1.4	0.30	10
5.0	3.4	0.7	1.11	10	30.00	1.35	2.8	1.8	0.33	10
5.0	2.3	0.6	1.11	10	24.00	1.20	2.1	1.4	0.30	10
5.0	3.0	0.8	1.11	10	25.00	1.35	2.0	1.3	0.33	10
5.0	3.0	0.8	1.11	10	34.00	1.35	3.4	2.2	0.33	10
5.0	2.3	0.8	1.11	10	20.00	1.20	1.4	0.9	0.30	10
5.0	2.1	0.7	0.83	10	19.00	1.00	1.5	1.1	0.25	10
5.0	1.8	0.6	0.83	10	18.50	1.00	1.5	0.9	0.25	10
5.0	2.4	1.0	1.11	10	26.00	1.35	2.2	1.4	0.33	10
5.0	2.0	0.6	0.83	10	21.00	1.20	1.6	1.0	0.30	10
5.0	1.9	0.6	0.83	10	19.00	1.00	1.5	1.1	0.25	10
5.0	2.5	0.7	1.11	10	22.00	1.20	1.7	1.2	0.30	10
5.0	2.2	0.8	0.83	10	26.00	1.35	2.2	1.4	0.33	10
5.0	3.0	0.8	1.11	10	30.00	1.35	2.8	1.8	0.33	10
5.0	2.6	0.7	1.11	10	22.00	1.20	1.7	1.2	0.30	10
5.0	2.7	0.7	0.83	10	32.00	1.35	3.1	2.0	0.33	10
5.0	3.5	0.9	1.11	10	38.00	x1.35	4.0	2.6	0.33	10
5.0	4.0	1.0	1.39	10	39.00	1.35	4.1	2.7	0.33	10
5.0	4.0	1.0	1.39	10	36.00	1.35	3.7	2.4	0.33	10
5.0	2.1	0.7	1.11	10	22.00	1.20	1.7	1.2	0.30	10
5.0	1.9	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	10
5.0	2.3	0.4	0.83	10	20.00	1.20	1.4	0.9	0.30	10
5.0	2.5	0.5	1.11	10	21.00	1.20	1.6	1.0	0.30	10
5.0	2.8	1.0	1.39	10	35.00	1.35	3.5	2.3	0.33	10
5.0	2.3	0.8	1.11	10	23.00	1.20	1.9	1.3	0.30	10
5.0	2.3	0.6	0.83	10	24.00	1.20	2.1	1.4	0.30	10

†2-wire service.

†3-wire service.

xMinimum \$3.00 per kw per month.

STATEMENT

**Cost of Power to Municipalities and Rates to Customers for
for the Year 1950, in Urban Municipalities Served**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a kilowatt basis	Domestic service					
		Service charge per month	First rate		All additional per kwh	Minimum gross monthly bill	Prompt payment discount
C—City T—Town (Pop. 2,000 or more)			Number of kwh per month	Per kwh per month			
	\$	cents		cents	cents	\$	%
Forest.....	40.48	.....	60	3.4	1.0	0.83	10
Forest Hill.....T	31.12	.....	60	2.5	1.1	0.83	10
Fort William.....C	30.33	.....	60	2.0	0.8	0.83	10
Frankford.....	31.75	.....	60	4.5	1.2	0.83	10
Galt.....C	32.55	.....	60	2.8	0.8	0.83	10
Gamebridge.....		.....	45	5.5	1.2	1.67	10
Georgetown.....T	36.06	.....	60	2.5	0.9	0.83	10
Geraldton.....T		.....	60	4.4	*2.1	†1.67	10
Glencoe.....	52.19	.....	60	3.0	1.1	†2.25	10
Glen Williams.....		.....	60	3.0	0.9	1.11	10
		.....	60	2.9	1.0	0.83	10
Goderich.....T	39.61	.....	60	3.0	1.1	0.83	10
Grand Valley.....	41.02	.....	60	2.8	1.0	1.11	10
Granton.....	52.20	.....	60	3.9	1.4	1.11	10
Gravenhurst.....T	32.78	.....	60	1.9	0.8	1.11	10
Grimsby.....T	36.07	.....	60	2.2	0.8	0.83	10
Guelph.....C	32.43	.....	60	2.1	1.0	0.83	10
Hagersville.....	37.90	.....	60	2.5	1.0	0.83	10
Hamilton.....C	30.88	.....	60	2.4	0.9	0.83	10
Hanover.....T	32.58	.....	60	2.4	1.0	0.83	10
Harriston.....	41.57	.....	55	3.0	1.0	0.83	10
Harrow.....	40.06	.....	60	3.3	1.2	0.83	10
Hastings.....	36.70	.....	45	4.2	1.0	1.11	10
Havelock.....	38.59	.....	60	3.6	1.5	0.83	10
Hensall.....	42.61	.....	60	3.2	1.0	0.83	10
Hepworth.....		.....	60	4.0	1.2	1.67	10
Hespeler.....T	32.55	.....	60	3.0	1.0	0.83	10
Highgate.....	38.82	.....	60	3.2	0.9	0.83	10
Hislop Townsite.....		56	40	3.5	*1.6	†1.67	10
Holstein.....	46.18	.....	60	3.0	0.75	†2.25	10
		.....	60	3.0	1.0	1.11	10
Hudson Townsite.....		.....	60	4.4	*2.1	†1.67	10
		.....			1.1	†2.25	10
Humberstone.....T	32.32	.....	60	2.4	0.9	0.83	10
Huntsville.....T	36.09	.....	60	2.0	1.0	1.11	10
Ingersoll.....T	34.16	.....	60	2.8	1.0	0.83	10
Iroquois.....	31.18	.....	60	2.5	1.0	0.83	10
Jarvis.....	43.09	.....	60	2.8	0.9	0.83	10

*2-wire service next 80 kwh, 3-wire service next 180 kwh.

†2-wire service.

‡3-wire service.

“C”—Continued

Domestic Service—Commercial Light Service—Power Service
by The Hydro-Electric Power Commission of Ontario

Commercial light service					Power service					
Service charge per 100 watts min 1,000 watts	First 100 hrs per month per kwh	All additional per kwh	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per hp	Service charge per kw per month	First 50 hrs per month per kwh	Second 50 hrs per month per kwh	All additional per kwh	Prompt payment discount
cents	cents	cents	\$	%	\$	\$	cents	cents	cents	%
5.0	2.9	0.7	0.83	10	32.00	1.35	3.1	2.0	0.33	10
5.0	2.0	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	10
5.0	1.9	0.4	0.83	10	18.00	1.00	1.4	0.9	0.25	10
5.0	3.5	1.0	0.83	10	20.00	1.20	1.4	0.9	0.30	10
5.0	2.3	0.4	0.83	10	17.00	1.00	1.3	0.8	0.25	10
5.0	4.8	0.8	1.67	10	34.00	1.35	3.4	2.2	0.33	10
5.0	2.0	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	10
5.0	4.4	1.1	†1.67	10	37.00	1.35	3.8	2.5	0.33	10
5.0	2.6	0.8	†2.25	10	31.00	1.35	2.9	1.9	0.33	10
5.0	2.3	0.6	1.11	10	21.00	1.20	1.6	1.0	0.30	10
5.0	2.6	0.7	0.83	10	25.00	1.35	2.0	1.3	0.33	10
5.0	2.4	0.8	1.11	10	22.00	1.20	1.7	1.2	0.30	10
5.0	3.4	1.3	1.11	10	29.00	1.35	2.6	1.7	0.33	10
5.0	1.5	0.6	1.11	10	17.00	1.00	1.3	0.8	0.25	10
5.0	1.8	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	10
5.0	1.9	0.5	0.83	10	17.00	1.00	1.3	0.8	0.25	10
5.0	2.0	0.8	0.83	10	19.00	1.00	1.5	1.1	0.25	10
z5.0	1.7	0.5	0.83	10	16.50	1.00	1.2	0.7	0.25	10
5.0	2.0	0.7	0.83	10	20.00	1.20	1.4	0.9	0.30	10
5.0	2.6	0.7	0.83	10	25.00	1.35	2.0	1.3	0.33	10
5.0	2.9	0.8	0.83	10	26.00	1.35	2.2	1.4	0.33	10
5.0	3.6	1.0	1.11	10	37.00	1.35	3.8	2.5	0.33	10
5.0	3.1	1.3	0.83	10	30.00	1.35	2.8	1.8	0.33	10
5.0	2.7	0.9	0.83	10	24.00	1.20	2.1	1.4	0.30	10
5.0	3.5	1.0	1.67	10	39.00	1.35	4.1	2.7	0.33	10
5.0	2.5	0.7	0.83	10	20.00	1.20	1.4	0.9	0.30	10
5.0	2.8	0.7	0.83	10	29.00	1.35	2.6	1.7	0.33	10
5.0	3.5	1.0	†1.67	10	30.00	1.35	2.8	1.8	0.33	10
5.0	2.5	0.8	†2.25	10	35.00	1.35	3.5	2.3	0.33	10
5.0	4.4	1.1	†1.67	10	37.00	1.35	3.8	2.5	0.33	10
5.0	1.9	0.6	0.83	10	20.00	1.20	1.4	0.9	0.30	10
5.0	1.8	0.9	1.11	10	19.00	1.00	1.5	1.1	0.25	10
5.0	2.2	0.6	0.83	10	19.00	1.00	1.5	1.1	0.25	10
5.0	2.0	0.8	0.83	10	23.00	1.20	1.9	1.3	0.30	10
5.0	2.3	0.6	0.83	10	24.00	1.20	2.1	1.4	0.30	10

†2-wire service.

‡3-wire service.

z—Minimum 500 watts.

STATEMENT

**Cost of Power to Municipalities and Rates to Customers for
for the Year 1950, in Urban Municipalities Served**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a kilowatt basis	Domestic service					
		Service charge per month	First rate		All additional per kwh	Minimum gross monthly bill	Prompt payment discount
			Number of kwh per month	Per kwh per month			
C—City T—Town (Pop. 2,000 or more)							
	\$	cents		cents	cents	\$	%
Kearns Townsite.....		56	40	3.5	*1.6	†1.67	10
Kemptville.....	35.80		55	3.2	0.75	‡2.25	10
Kincardine.....T	37.52		50	3.1	1.0	0.83	10
					*1.6	†1.67	
King Kirkland Townsite.....		56	40	3.5	0.75	‡2.25	10
Kingston.....C	30.14		50	1.8	0.8	0.83	10
Kingsville.....T	39.83		60	2.7	1.0	0.83	10
Kirkfield.....	52.20		50	5.0	1.2	1.66	10
Kitchener.....C	31.85		60	2.3	1.1	0.83	10
Lakefield.....	33.97		55	2.8	1.0	0.83	10
Lambeth.....	36.61		60	3.2	1.1	0.83	10
Lanark.....	42.55		50	3.8	1.2	0.83	10
Lancaster.....	52.20		60	3.0	1.0	0.83	10
Larder Lake.....					Special		
La Salle.....	41.09		60	4.2	1.4	1.67	10
Latchford.....			60	5.0	2.0	1.67	10
Leamington.....T	39.78		60	2.3	0.9	1.11	10
Leaside.....T			60	1.8	1.2	0.83	10
Lindsay.....T	34.99		60	2.3	1.0	0.83	10
Listowel.....T	37.82		60	2.6	1.0	0.83	10
London.....C	32.54		60	2.4	0.9	0.83	10
London Twp.....	35.53		60	3.1	1.1	1.11	10
Long Branch.....T	32.67		60	2.2	0.8	0.83	10
Lucan.....	37.97		60	3.2	1.1	0.83	10
Lucknow.....	39.64		55	2.7	1.0	1.39	10
Lynden.....	38.28		60	3.0	1.0	0.83	10
Madoc.....	37.45		60	2.9	1.2	0.83	10
Markdale.....	33.64		60	2.0	1.0	0.83	10
Markham.....	35.29		60	2.8	1.0	0.83	10
Marmora.....	38.37		60	3.6	1.0	0.83	10
Martintown.....	33.47		50	3.0	1.0	1.11	10
Matachewan Townsite.....			50	4.5	1.0	1.11	10
Matheson.....		56	40	3.5	*1.6	†1.67	10
Maxville.....	37.82		55	3.1	0.75	‡2.25	10
McGarry.....					1.0	0.83	
Meaford.....T	35.96		60	2.6	Special 1.0	0.83	10
Merlin.....	42.07		60	3.1	1.0	0.83	10
			50	5.0			
Merrickville.....	29.76		50	2.5	1.0	1.11	10
Merritton.....T	28.61		60	2.8	1.2	0.83	10
Midland.....T	31.45		60	2.3	0.8	0.83	10
Mildmay.....	37.03		50	2.8	1.0	1.39	10

*2-wire service next 80 kwh, 3-wire service next 180 kwh.

†2-wire service.

‡3-wire service.

“C”—Continued

Domestic Service—Commercial Light Service—Power Service
by The Hydro-Electric Power Commission of Ontario

Commercial light service					Power service					
Service charge per 100 watts min 1,000 watts	First 100 hrs per month per kwh	All additional per kwh	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per hp	Service charge per kw per month	First 50 hrs per month per kwh	Second 50 hrs per month per kwh	All additional per kwh	Prompt payment discount
cents	cents	cents	\$	%	\$	\$	cents	cents	cents	%
5.0	3.5	1.0	\$1.67	10	30.00	1.35	2.8	1.8	0.33	10
5.0	2.7	1.0	\$2.25	10	25.00	1.35	2.0	1.3	0.33	10
5.0	2.6	0.8	1.11	10	26.00	1.35	2.2	1.4	0.33	10
5.0	3.5	1.0	\$1.67	10	30.00	1.35	2.8	1.8	0.33	10
5.0	1.5	0.7	\$2.25	10	18.00	1.00	1.4	0.9	0.25	10
5.0	2.0	0.7	0.83	10	23.00	1.20	1.9	1.3	0.30	10
5.0	4.5	1.0	1.66	10	39.00	1.35	4.1	2.7	0.33	10
5.0	2.1	0.8	0.83	10	21.00	1.20	1.6	1.0	0.30	10
5.0	2.4	0.8	0.83	10	22.00	1.20	1.7	1.2	0.30	10
5.0	2.8	0.8	0.83	10	33.00	1.35	3.2	2.1	0.33	10
5.0	3.3	1.0	0.83	10	38.00	1.35	4.0	2.6	0.33	10
5.0	2.5	1.0	0.83	10	35.00	1.35	3.5	2.3	0.33	10
5.0	3.7	1.1	1.67	10	31.00	1.35	2.9	1.9	0.33	10
5.0	4.5	2.0	1.67	10	30.00	1.35	2.8	1.8	0.33	10
5.0	2.0	0.5	1.11	10	21.00	1.20	1.6	1.0	-0.30	10
z7.5	1.9	0.5	0.83	10	21.00	1.00	2.0	1.0	0.31	10
5.0	2.0	0.9	0.83	10	19.00	1.00	1.5	1.1	0.25	10
5.0	2.3	0.6	0.83	10	21.00	1.20	1.6	1.0	0.30	10
5.0	1.8	0.4	0.83	10	16.00	1.00	1.1	0.7	0.25	10
5.0	2.7	0.7	1.11	10	23.00	1.20	1.9	1.3	0.30	10
5.0	1.8	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	10
5.0	2.7	0.6	0.83	10	24.00	1.20	2.1	1.4	0.30	10
5.0	2.2	0.8	1.39	10	30.00	1.35	2.8	1.8	0.33	10
5.0	2.5	0.8	0.83	10	23.00	1.20	1.9	1.3	0.30	10
5.0	2.5	1.1	0.83	10	30.00	1.35	2.8	1.8	0.33	10
5.0	1.8	0.8	0.83	10	21.00	1.20	1.6	1.0	0.30	10
5.0	2.4	0.6	0.83	10	21.00	1.20	1.6	1.0	0.30	10
5.0	3.2	0.9	0.83	10	27.00	1.35	2.3	1.5	0.33	10
5.0	3.0	1.0	1.66	10	30.00	1.35	2.8	1.8	0.33	10
5.0	3.5	1.0	\$1.67	10	30.00	1.35	2.8	1.8	0.33	10
5.0	3.5	1.0	\$2.25	10	30.00	1.35	2.8	1.8	0.33	10
5.0	2.8	1.0	\$1.67	10	39.00	1.35	4.1	2.7	0.33	10
5.0	2.2	0.8	\$2.25	10	24.00	1.20	2.1	1.4	0.30	10
5.0	2.6	0.7	0.83	10	30.00	1.35	2.8	1.8	0.33	10
Same as Domestic	2.2	0.8	0.83	10	19.00	1.00	1.5	1.1	0.25	10
5.0	1.8	0.7	0.83	10	17.00	1.00	1.3	0.8	0.25	10
5.0	2.4	0.8	1.39	10	30.00	1.35	2.8	1.8	0.33	10

†2-wire service.

‡3-wire service.

z—Minimum 500 watts.

STATEMENT

**Cost of Power to Municipalities and Rates to Customers for
for the Year 1950, in Urban Municipalities Served**

Municipality C—City T—Town (Pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municip- ality on a kilowatt basis	Domestic service					
		Service charge per month	First rate		All addition- al per kwh	Minimum gross monthly bill	Prompt pay- ment dis- count
			Number of kwh per month	Per kwh per month			
	\$	cents		cents	cents	\$	%
Millbrook.....	41.30	.....	60	4.6	1.0	0.83	10
Milton.....T	32.74	.....	60	2.8	0.9	0.83	10
Milverton.....	38.79	.....	60	3.0	1.1	1.11	10
Mimico.....T	31.49	.....	60	2.5	1.1	0.83	10
Mitchell.....T	35.92	.....	60	3.3	1.2	0.83	10
Moorefield.....	46.40	.....	60	3.2	1.0	1.39	10
Morrisburg.....	32.60	.....	60	3.0	1.0	0.83	10
Mount Brydges.....	39.30	.....	60	2.4	0.8	0.83	10
Mount Forest.....T	38.93	.....	60	2.8	1.0	0.83	10
Napanee.....T	33.28	.....	60	2.8	1.1	0.83	10
Neustadt.....	34.60	.....	60	3.0	1.0	1.39	10
Newboro.....	52.20	.....	60	5.0	1.5	3.33	10
Newburgh.....	33.91	.....	60	4.3	1.2	1.39	10
Newbury.....	45.66	.....	60	4.0	1.0	1.11	10
Newcastle.....	34.46	.....	60	3.0	0.9	1.11	10
New Hamburg.....	36.92	.....	60	3.0	1.1	0.83	10
Newmarket.....T	33.98	.....	60	2.4	0.8	0.83	10
New Toronto.....T	33.81	.....	60	2.5	1.0	0.83	10
Niagara.....	29.94	.....	60	2.8	1.1	0.83	10
Niagara Falls.....C	25.56	.....	60	1.9	0.8	1.00	10
Nipigon Twp.....	33.58	.....	60	2.8	1.0	1.11	10
North Bay.....C	.....	.....	60	2.3	0.9	0.83	10
North York Twp.....	32.34	.....	60	2.8	1.4	0.83	10
Norwich.....	37.08	.....	60	2.5	0.9	0.83	10
Norwood.....	34.41	.....	50	3.9	1.1	1.11	10
Oakville.....T	34.73	.....	60	2.8	1.2	0.83	10
Oil Springs.....	40.77	.....	60	2.6	0.9	1.11	10
Omamee.....	36.98	.....	60	3.3	1.0	0.83	10
Orangeville.....T	36.41	.....	55	2.8	1.0	1.11	10
Orono.....	35.93	.....	60	4.5	1.0	1.11	10
Oshawa.....C	33.70	.....	60	3.0	1.1	0.83	10
Ottawa.....C	28.98	33-66	60	2.0	0.5	0.83	10
Otterville.....	40.22	.....	60	1.0		0.83	10
Owen Sound.....C	33.13	.....	60	2.6	0.9	0.83	10
Paisley.....	39.36	.....	60	2.4	1.0	1.11	10
Palmerston.....	40.16	.....	50	4.0	1.0	1.39	10
Paris.....T	32.44	.....	60	2.6	1.0	1.11	10
Parkhill.....	42.00	.....	60	2.4	1.0	0.83	10
Parry Sound.....T	38.78	.....	60	3.2	1.5	0.83	10
Penetanguishene.....T	33.69	.....	60	2.4	0.9	0.83	10

“C”—Continued

Domestic Service—Commercial Light Service—Power Service
by The Hydro-Electric Power Commission of Ontario

Commercial light service					Power service					
Service charge per 100 watts min 1,000 watts	First 100 hrs per month per kwh	All additional per kwh	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per hp	Service charge per kw per month	First 50 hrs per month per kwh	Second 50 hrs per month per kwh	All additional per kwh	Prompt payment discount
cents	cents	cents	\$	%	\$	\$	cents	cents	cents	%
5.0	4.2	1.0	0.83	10	35.00	1.35	3.5	2.3	0.33	10
5.0	2.3	0.5	0.83	10	21.00	1.20	1.6	1.0	0.30	10
5.0	2.6	1.0	1.11	10	21.00	1.20	1.6	1.0	0.30	10
5.0	2.2	0.8	0.83	10	21.00	1.20	1.6	1.0	0.30	10
5.0	2.8	0.8	0.83	10	26.00	1.35	2.2	1.4	0.33	10
5.0	2.8	0.9	1.39	10	30.00	1.35	2.8	1.8	0.33	10
5.0	2.7	0.8	0.83	10	23.00	1.20	1.9	1.3	0.30	10
5.0	1.8	0.5	0.83	10	20.00	1.20	1.4	0.9	0.30	10
5.0	2.3	0.8	0.83	10	26.00	1.35	2.2	1.4	0.33	10
5.0	2.5	1.0	0.83	10	21.00	1.20	1.6	1.0	0.30	10
5.0	2.5	0.8	1.39	10	30.00	1.35	2.8	1.8	0.33	10
5.0	4.5	1.5	5.55	10	30.00	1.35	2.8	1.8	0.33	10
5.0	3.8	1.2	1.39	10	28.00	1.35	2.5	1.6	0.33	10
5.0	3.5	0.9	1.11	10	35.00	1.35	3.5	2.3	0.33	10
5.0	2.5	0.8	1.11	10	25.00	1.35	2.0	1.3	0.33	10
5.0	2.5	0.8	0.83	10	22.00	1.20	1.7	1.2	0.30	10
5.0	2.2	0.7	0.83	10	22.00	1.20	1.7	1.2	0.30	10
5.0	1.9	0.7	0.83	10	19.00	1.00	1.5	1.1	0.25	10
5.0	2.3	0.7	0.83	10	21.00	1.20	1.6	1.0	0.30	10
5.0	1.7	0.6	1.00	10	16.00	1.00	1.1	0.7	0.25	10
5.0	2.4	0.8	1.11	10	21.00	1.20	1.6	1.0	0.30	10
5.0	1.8	0.8	0.83	10	22.00	1.20	1.7	1.2	0.30	10
5.0	2.7	1.0	0.83	10	20.00	1.20	1.4	0.9	0.30	10
5.0	2.2	0.7	0.83	10	20.00	1.20	1.4	0.9	0.30	10
5.0	3.4	0.9	1.11	10	26.00	1.35	2.2	1.4	0.33	10
5.0	2.5	1.0	0.83	10	19.00	1.00	1.5	1.1	0.25	10
5.0	2.4	0.6	1.11	10	27.00	1.35	2.3	1.5	0.33	10
5.0	2.8	0.8	0.83	10	30.00	1.35	2.8	1.8	0.33	10
5.0	2.0	0.8	1.11	10	18.00	1.00	1.4	0.9	0.25	10
5.0	4.0	0.8	1.11	10	35.00	1.35	3.5	2.3	0.33	10
5.0	2.5	0.8	0.83	10	22.00	1.20	1.7	1.2	0.30	10
5.0	2.1	0.5	0.83	10	18.00	a1.00	1.8	1.2	0.15	b10
5.0	2.2	0.5	0.83	10	22.00	1.20	1.7	1.2	0.30	10
5.0	2.1	0.8	1.11	10	19.00	1.00	1.5	1.1	0.25	10
5.0	3.5	0.8	1.39	10	35.00	1.35	3.5	2.3	0.33	10
5.0	2.2	0.8	1.11	10	21.00	1.20	1.6	1.0	0.30	10
5.0	1.9	0.5	0.83	10	16.00	1.00	1.1	0.7	0.25	10
5.0	2.7	1.0	1.11	10	32.00	1.35	3.1	2.0	0.33	10
5.0	2.7	1.2	0.83	10	24.00	1.20	2.1	1.4	0.30	10
5.0	2.1	0.7	0.83	10	20.00	1.20	1.4	0.9	0.30	10

a—\$1.00 per hp.

b—Local discount 15 & 10%.

STATEMENT

**Cost of Power to Municipalities and Rates to Customers for
for the Year 1950, in Urban Municipalities Served**

Municipality c—City t—Town (Pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to munici- pality on a kilowatt basis	Domestic service					
		Service charge per month	First rate		All addition- al per kwh	Minimum gross monthly bill	Prompt pay- ment dis- count
			Number of kwh per month	Per kwh per month			
	\$	cents		cents	cents	\$	%
Perth.....T	32.19	.....	55	2.8	1.0	0.83	10
Peterborough.....C	30.40	.....	60	2.2	1.1	0.83	10
Petrolia.....T	40.46	.....	60	3.1	1.0	0.83	10
Picton.....T	34.93	.....	60	2.0	0.8	0.83	10
Plattsville.....	41.68	.....	60	3.3	1.2	0.83	10
Point Edward.....	38.00	.....	60	3.5	1.2	0.83	10
Port Arthur.....C	30.55	.....	60	2.0	0.8	0.83	10
Port Carling.....	.....	33-66	45	4.7	1.5	1.66	10
Port Colborne.....T	32.18	.....	60	2.7	0.9	0.83	10
Port Credit.....T	32.48	.....	60	2.4	1.1	0.83	10
Port Dalhousie.....T	32.00	.....	60	2.9	1.1	0.83	10
Port Dover.....T	38.46	.....	60	2.2	0.8	0.83	10
Port Elgin.....T	39.86	.....	60	3.5	1.3	1.11	10
Port Hope.....T	34.26	.....	60	2.4	1.0	0.83	10
Port McNicoll.....	34.69	.....	60	3.3	1.0	0.83	10
Port Perry.....	40.36	.....	50	4.0	1.2	1.11	10
Port Rowan.....	44.31	.....	60	3.2	1.1	1.11	10
Port Stanley.....	41.37	.....	60	2.8	0.9	1.11	10
Powassan.....	.....	56	40	3.5	*1.6	†1.67	10
Prescott.....T	32.63	.....	60	2.9	*0.75 1.3	†2.25 0.83	10
Preston.....T	32.19	.....	60	2.9	0.9	0.83	10
Priceville.....	47.26	.....	60	5.0	1.5	1.67	10
Princeton.....	41.05	.....	60	3.0	1.0	1.39	10
Queenston.....	28.31	.....	60	2.6	1.0	0.83	10
Red Lake Townsite.....	.....	.....	60	4.4	*2.1 1.1	†1.67 ‡2.25	10
Red Rock.....	31.94	.....	60	3.0	1.1	†1.67 ‡2.22	10
Renfrew.....T	36.32	.....	45	3.5	1.0	0.83	10
Richmond.....	52.20	.....	40	4.3	1.2	1.67	10
Richmond Hill.....	33.58	.....	60	2.5	0.9	0.83	10
Ridgetown.....T	38.80	.....	60	2.4	0.9	0.83	10
Ripley.....	44.16	.....	55	4.8	1.0	1.67	10
Riverside.....T	38.41	.....	60	3.3	1.1	1.11	10
Rockwood.....	37.03	.....	60	3.0	1.1	0.83	10
Rodney.....	43.83	.....	60	2.4	0.8	0.83	10
Rosseau.....	52.20	.....	60	4.0	2.0	2.22	10

*2-wire service next 80 kwh, 3-wire service next 180 kwh.

†2-wire service.

‡3-wire service.

“C”—Continued

Domestic Service—Commercial Light Service—Power Service
by The Hydro-Electric Power Commission of Ontario

Commercial light service					Power service					
Service charge per 100 watts min 1,000 watts	First 100 hrs per month per kwh	All additional per kwh	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per hp	Service charge per kw per month	First 50 hrs per month per kwh	Second 50 hrs per month per kwh	All additional per kwh	Prompt payment discount
cents	cents	cents	\$	%	\$	\$	cents	cents	cents	%
5.0	2.0	0.6	0.83	10	17.00	1.00	1.3	0.8	0.25	10
5.0	2.0	0.9	0.83	10	18.00	1.00	1.4	0.9	0.25	10
5.0	2.4	0.8	0.83	10	28.00	1.35	2.5	1.6	0.33	10
5.0	1.7	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	10
5.0	3.0	1.0	0.83	10	29.00	1.35	2.6	1.7	0.33	10
5.0	3.0	1.0	0.83	10	28.00	1.35	2.5	1.6	0.33	10
5.0	1.9	0.4	0.83	10	18.00	1.00	1.4	0.9	0.25	10
5.0	4.5	0.8	1.66	10	32.00	1.35	3.1	2.0	0.33	10
5.0	2.4	0.7	0.83	10	20.00	1.20	1.4	0.9	0.30	10
5.0	2.1	0.8	0.83	10	22.00	1.20	1.7	1.2	0.30	10
5.0	2.3	0.7	0.83	10	19.00	1.00	1.5	1.1	0.25	10
5.0	1.7	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	10
5.0	2.8	1.0	1.11	10	28.00	1.35	2.5	1.6	0.33	10
5.0	2.0	0.8	0.83	10	20.00	1.20	1.4	0.9	0.30	10
5.0	2.8	0.8	0.83	10	30.00	1.35	2.8	1.8	0.33	10
5.0	3.2	1.0	1.11	10	28.00	1.35	2.5	1.6	0.33	10
5.0	2.7	0.9	1.11	10	33.00	1.35	3.2	2.1	0.33	10
5.0	2.4	0.6	1.11	10	26.00	1.35	2.2	1.4	0.33	10
5.0	3.5	1.0	†1.67	10	30.00	1.35	2.8	1.8	0.33	10
5.0	2.6	1.3	‡2.25	10	22.00	1.20	1.7	1.2	0.30	10
5.0	2.4	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	10
5.0	4.5	1.5	1.67	10	33.00	1.35	3.2	2.1	0.33	10
5.0	2.7	0.8	1.39	10	24.00	1.20	2.1	1.4	0.30	10
5.0	2.1	0.8	0.83	10	24.00	1.20	2.1	1.4	0.30	10
5.0	4.4	1.1	†1.67	10	37.00	1.35	3.8	2.5	0.33	10
5.0	3.0	1.0	†1.67	10	21.00	1.20	1.6	1.0	0.30	10
5.0	2.0	0.5	0.83	10	21.00	1.20	1.6	1.0	0.30	10
5.0	4.0	1.0	1.67	10	35.00	1.35	3.5	2.3	0.33	10
5.0	2.0	0.6	0.83	10	20.00	1.20	1.4	0.9	0.30	10
5.0	1.9	0.6	0.83	10	20.00	1.20	1.4	0.9	0.30	10
5.0	4.3	0.8	1.67	10	30.00	1.35	2.8	1.8	0.33	10
5.0	2.6	0.6	1.11	10	25.00	1.35	2.0	1.3	0.33	10
5.0	2.5	0.9	0.83	10	27.00	1.35	2.3	1.5	0.33	10
5.0	2.1	0.5	0.83	10	24.00	1.20	2.1	1.4	0.30	10
5.0	4.0	2.0	2.22	10	39.00	1.35	4.1	2.7	0.33	10

†2-wire service.

‡3-wire service.

STATEMENT

**Cost of Power to Municipalities and Rates to Customers for
for the Year 1950, in Urban Municipalities Served**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a kilowatt basis	Domestic service					
		Service charge per month	First rate		All additional per kwh	Minimum gross monthly bill	Prompt payment discount
			Number of kwh per month	Per kwh per month			
c—City T—Town (Pop. 2,000 or more)							
	\$	cents		cents	cents	\$	%
Russell.....	52.20	.....	55	4.6	1.2	1.39	10
St. Catharines.....C	28.65	.....	60	2.2	1.0	1.00	10
St. Clair Beach.....	40.48	.....	60	3.6	1.2	1.11	10
St. George.....	37.59	.....	60	2.5	0.9	0.83	10
St. Jacobs.....	33.83	.....	60	2.6	1.0	0.83	10
St. Marys.....T	37.58	.....	60	3.5	1.2	0.83	10
St. Thomas.....C	34.04	.....	60	2.6	1.0	0.83	10
Sarnia.....C	39.62	.....	60	2.8	1.0	0.83	10
Scarboro Twp.....	34.09	.....	60	2.6	1.1	0.83	10
Schreiber Twp.....	41.90	.....	60	5.0	2.0	3.89	10
Seaforth.....T	35.90	.....	60	3.1	1.2	0.83	10
Shelburne.....	36.94	.....	60	2.7	1.0	1.11	10
Simcoe.....T	33.42	.....	60	2.2	0.8	0.83	10
Sioux Lookout.....T	.....	.....	60	4.0	1.5	2.00	10
Smiths Falls.....T	30.94	.....	60	2.6	1.0	0.83	10
Smithville.....	37.46	.....	60	3.0	0.9	0.83	10
Southampton.....	39.21	.....	50	3.2	1.1	1.11	10
Springfield.....	39.51	.....	60	3.4	0.9	0.83	10
Stamford Twp.....	25.58	.....	60	2.7	1.0	1.00	10
Stayner.....	35.08	.....	55	3.0	1.0	0.83	10
Stirling.....	30.28	.....	60	2.5	1.0	0.83	10
Stoney Creek.....	35.82	.....	60	3.5	1.1	0.83	10
Stouffville.....	35.61	.....	60	2.1	0.8	0.83	10
Stratford.....C	34.04	.....	60	2.6	0.9	0.83	10
Strathroy.....T	35.66	.....	60	3.1	0.9	0.83	10
Streetsville.....	33.52	.....	60	2.8	1.0	0.83	10
Sudbury.....C	.....	.....	60	2.4	1.0	0.83	10
Sunderland.....	38.62	.....	60	3.5	1.0	1.11	10
Sutton.....	40.90	.....	60	2.7	1.0	1.11	10
Swansea.....T	34.47	.....	60	2.4	1.1	0.83	10
Tara.....	39.86	.....	60	2.8	1.2	1.11	10
Tavistock.....	36.77	.....	60	2.5	0.9	0.83	10
Tecumseh.....T	39.51	.....	60	3.5	1.0	1.11	10
Teeswater.....	40.44	.....	60	3.0	1.0	1.11	10
Terrace Bay.....	33.33	56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Thamesford.....	39.70	.....	60	3.1	1.1	0.83	10
Thamesville.....	40.27	.....	60	2.3	1.0	0.83	10
Theford.....	41.65	.....	60	3.6	1.0	0.83	10
Thornbury.....	42.06	.....	60	3.5	1.0	0.83	10
Thorndale.....	37.79	.....	60	4.1	1.2	0.83	10

*2-wire service next 80 kwh, 3-wire service next 180 kwh.

†2-wire service.

‡3-wire service.

“C”—Continued

Domestic Service—Commercial Light Service—Power Service
by The Hydro-Electric Power Commission of Ontario

Commercial light service					Power service					
Service charge per 100 watts min 1,000 watts	First 100 hrs per month per kwh	All additional per kwh	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per hp	Service charge per kw per month	First 50 hrs per month per kwh	Second 50 hrs per month per kwh	All additional per kwh	Prompt payment discount
cents	cents	cents	\$	%	\$	\$	cents	cents	cents	%
5.0	4.3	1.0	1.39	10	35.00	1.35	3.5	2.3	0.33	10
z5.0	1.9	0.5	a1.00	10	17.00	1.00	1.3	0.8	0.25	10
5.0	3.5	1.1	1.11	10	32.00	1.35	3.1	2.0	0.33	10
5.0	2.0	0.6	0.83	10	22.00	1.20	1.7	1.2	0.30	10
5.0	2.2	0.8	0.83	10	20.00	1.20	1.4	0.9	0.30	10
5.0	3.0	1.0	0.83	10	23.00	1.20	1.9	1.3	0.30	10
5.0	1.9	0.4	0.83	10	17.00	1.00	1.3	0.8	0.25	10
5.0	2.3	0.5	0.83	10	23.00	1.20	1.9	1.3	0.30	10
5.0	2.1	0.7	0.83	10	21.00	1.20	1.6	1.0	0.30	10
5.0	5.0	2.0	3.89	10	30.00	1.35	2.8	1.8	0.33	10
5.0	2.6	0.9	0.83	10	24.00	1.20	2.1	1.4	0.30	10
5.0	2.3	0.9	1.11	10	20.00	1.20	1.4	0.9	0.30	10
5.0	1.8	0.5	0.83	10	19.00	1.00	1.5	1.1	0.25	10
5.0	3.5	2.0	x1.00	10	30.00	1.35	2.8	1.8	0.33	10
5.0	2.0	0.7	0.83	10	19.00	1.00	1.5	1.1	0.25	10
5.0	2.5	0.7	0.83	10	25.00	1.35	2.0	1.3	0.33	10
5.0	2.9	1.1	1.11	10	26.00	1.35	2.2	1.4	0.33	10
5.0	2.9	0.8	0.83	10	30.00	1.35	2.8	1.8	0.33	10
5.0	2.4	0.7	1.00	10	18.00	1.00	1.4	0.9	0.25	10
5.0	2.3	0.9	0.83	10	21.00	1.20	1.6	1.0	0.30	10
5.0	2.0	1.0	0.83	10	19.00	1.00	1.5	1.1	0.25	10
5.0	3.2	0.7	0.83	10	27.00	1.35	2.3	1.5	0.33	10
5.0	1.8	0.5	0.83	10	20.00	1.20	1.4	0.9	0.30	10
5.0	2.0	0.4	0.83	10	18.00	1.00	1.4	0.9	0.25	10
5.0	2.5	0.6	0.83	10	22.00	1.20	1.7	1.2	0.30	10
5.0	2.3	0.5	0.83	10	20.00	1.20	1.4	0.9	0.30	10
5.0	2.4	0.8	0.83	10	24.00	1.20	2.1	1.4	0.30	10
5.0	3.0	0.8	1.11	10	33.00	1.35	3.2	2.1	0.33	10
5.0	2.4	0.7	1.11	10	28.00	1.35	2.5	1.6	0.33	10
5.0	2.0	0.8	0.83	10	20.00	1.20	1.4	0.9	0.30	10
5.0	2.4	1.0	1.11	10	31.00	1.35	2.9	1.9	0.33	10
5.0	2.0	0.5	0.83	10	20.00	1.20	1.4	0.9	0.30	10
5.0	2.9	0.7	1.11	10	27.00	1.35	2.3	1.5	0.33	10
5.0	2.6	0.8	1.11	10	34.00	1.35	3.4	2.2	0.33	10
5.0	3.5	1.0	†1.67	10	30.00	1.35	2.8	1.8	0.33	10
5.0	2.5	0.8	‡2.25	10	30.00	1.35	2.8	1.8	0.33	10
5.0	2.5	0.8	0.83	10	24.00	1.20	2.1	1.4	0.30	10
5.0	1.9	0.6	0.83	10	22.00	1.20	1.7	1.2	0.30	10
5.0	3.2	0.7	0.83	10	28.00	1.35	2.5	1.6	0.33	10
5.0	3.0	0.8	0.83	10	20.00	1.20	1.4	0.9	0.30	10
5.0	3.7	1.0	0.83	10	36.00	1.35	3.7	2.4	0.33	10

z—Minimum 500 watts.

†2-wire service.

‡3-wire service.

x—Per 100 watts—min. \$2.00 max. \$5.00.

a—\$1.00 or \$1.00 per kw.

STATEMENT

**Cost of Power to Municipalities and Rates to Customers for
for the Year 1950, in Urban Municipalities Served**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a kilowatt basis	Domestic service					
		Service charge per month	First rate		All additional per kwh	Minimum gross monthly bill	Prompt payment discount
			Number of kwh per month	Per kwh per month			
c—City T—Town (Pop. 2,000 or more)							
Thornton.....	\$ 52.20	cents	60	3.8	cents	\$ 1.39	% 10
Thorold.....T	29.07	.....	60	2.1	0.9	0.83	10
Tilbury.....T	38.63	.....	60	2.3	0.9	0.83	10
Tillsonburg.....T	35.39	.....	60	2.6	0.9	0.83	10
Toronto.....C	31.34	.....	60	1.8	1.2	0.83	10
Toronto Twp.....	33.13	.....	60	2.7	1.2	1.11	10
Tottenham.....	48.25	.....	50	3.5	1.0	1.39	10
Trafalgar Twp.....	35.26	.....	60	3.9	1.9	x0.83	10
Trenton.....T	29.18	.....	60	1.8	0.8	0.83	10
Tweed.....	40.07	.....	50	3.8	1.0	0.83	10
Uxbridge.....	41.24	.....	60	3.1	1.0	1.11	10
Victoria Harbour.....	39.85	.....	60	2.8	1.2	1.11	10
Walkerton.....T	32.58	.....	50	3.2	1.1	1.11	10
Wallaceburg.....T	36.88	.....	60	2.6	0.8	0.83	10
Wardsville.....	47.05	.....	60	3.6	0.9	1.11	10
Warkworth.....	41.34	.....	50	3.5	1.2	1.11	10
Waterdown.....	35.86	.....	60	2.6	1.0	0.83	10
Waterford.....	34.67	.....	60	2.3	0.9	0.83	10
Waterloo.....C	32.09	.....	60	2.0	0.9	0.83	10
Watford.....	43.16	.....	60	3.1	1.1	0.83	10
Waubushene.....	34.55	.....	55	3.0	1.0	1.11	10
Welland.....C	28.57	.....	60	1.9	0.8	0.83	10
Wellesley.....	38.38	.....	60	3.0	1.2	0.83	10
Wellington.....	35.42	.....	60	2.5	0.9	0.83	10
West Lorne.....	40.96	.....	60	2.7	0.9	1.11	10
Weston.....T	31.36	.....	60	2.3	1.0	0.83	10
Westport.....	47.82	.....	50	4.0	1.0	1.94	10
Wheatley.....	46.27	.....	60	2.9	1.0	0.83	10
Whitby.....T	33.21	.....	60	2.7	1.2	0.83	10
Wiarton.....	41.36	.....	50	2.8	0.9	1.11	10
Williamsburg.....	32.92	.....	60	2.0	0.8	0.83	10
Winchester.....	35.84	.....	60	2.3	1.0	0.83	10
Windermere.....	52.20	.....	60	4.0	1.5	2.22	10
Windsor.....C	35.49	.....	60	3.0	0.8	0.83	10
Wingham.....T	37.99	.....	50	3.2	1.1	1.11	10
Woodbridge.....	34.04	.....	60	2.6	0.9	0.83	10
Woodstock.....C	32.62	.....	60	2.9	1.0	1.11	10
Woodville.....	41.96	.....	50	3.8	1.0	1.11	10
Wyoming.....	45.57	.....	60	3.4	1.0	0.83	10
York Twp.....	31.03	.....	60	2.2	0.9	0.83	10
Zurich.....	47.99	.....	60	3.7	1.2	0.83	10

xUnder 10 kw 83 cents; over 10 kw \$2.22 in former area No. 1.

Under 10 kw \$1.11; over 10 kw \$2.22 in former area No. 2.

“C”—Concluded

Domestic Service—Commercial Light Service—Power Service
by The Hydro-Electric Power Commission of Ontario

Commercial light service					Power service					
Service charge per 100 watts min 1,000 watts	First 100 hrs per month per kwh	All additional per kwh	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per hp	Service charge per kw per month	First 50 hrs per month per kwh	Second 50 hrs per month per kwh	All additional per kwh	Prompt payment discount
cents	cents	cents	\$	%	\$	\$	cents	cents	cents	%
5.0	3.3	1.0	1.39	10	30.00	1.35	2.8	1.8	0.33	10
5.0	1.5	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	10
5.0	1.9	0.7	0.83	10	18.50	1.00	1.5	0.9	0.25	10
5.0	2.1	0.6	0.83	10	20.00	1.20	1.4	0.9	0.30	10
z7.5	1.9	0.5	0.83	10	21.00	1.00	2.0	1.0	0.31	10
						b d-c	3.0	1.2	0.60	
5.0	2.3	0.9	1.11	10	22.00	1.20	1.7	1.2	0.30	10
5.0	3.0	1.0	1.39	10	30.00	1.35	2.8	1.8	0.33	10
5.0	3.2	1.1	0.83	10	28.00	1.35	2.5	1.6	0.33	10
5.0	1.6	0.6	0.83	10	19.00	1.00	1.5	1.1	0.25	10
5.0	3.3	1.0	0.83	10	29.00	1.35	2.6	1.7	0.33	10
5.0	2.7	0.8	1.11	10	26.00	1.35	2.2	1.4	0.33	10
5.0	2.3	1.0	1.11	10	28.00	1.35	2.5	1.6	0.33	10
5.0	2.4	0.9	1.11	10	26.00	1.35	2.2	1.4	0.33	10
5.0	2.0	0.5	0.83	10	19.00	1.00	1.5	1.1	0.25	10
5.0	3.2	0.8	1.11	10	30.00	1.35	2.8	1.8	0.33	10
5.0	3.0	1.0	1.11	10	32.00	1.35	3.1	2.0	0.33	10
5.0	2.1	0.7	0.83	10	20.00	1.20	1.4	0.9	0.30	10
5.0	1.8	0.6	0.83	10	17.00	1.00	1.3	0.8	0.25	10
5.0	1.9	0.6	0.83	10	20.00	1.20	1.4	0.9	0.30	10
5.0	2.8	0.9	0.83	10	28.00	1.35	2.5	1.6	0.33	10
5.0	2.2	1.0	1.11	10	33.00	1.35	3.2	2.1	0.33	10
5.0	1.7	0.6	0.83	10	17.00	1.00	1.3	0.8	0.25	10
5.0	2.7	1.0	0.83	10	25.00	1.35	2.0	1.3	0.33	10
5.0	2.3	0.7	0.83	10	25.00	1.35	2.0	1.3	0.33	10
5.0	2.4	0.6	1.11	10	26.00	1.35	2.2	1.4	0.33	10
5.0	1.8	0.7	0.83	10	19.00	1.00	1.5	1.1	0.25	10
5.0	3.5	1.0	1.94	10	39.00	1.35	4.1	2.7	0.33	10
5.0	2.7	0.7	0.83	10	26.00	1.35	2.2	1.4	0.33	10
5.0	2.3	1.0	0.83	10	28.00	1.35	2.5	1.6	0.33	10
5.0	2.3	0.8	1.11	10	33.00	1.35	3.2	2.1	0.33	10
5.0	2.0	0.8	0.83	10	32.00	1.35	3.1	2.0	0.33	10
5.0	1.8	0.8	0.83	10	22.00	1.20	1.7	1.2	0.30	10
5.0	4.0	1.5	2.22	10	39.00	1.35	4.1	2.7	0.33	10
5.0	2.5	0.6	0.83	10	20.00	1.20	1.4	0.9	0.30	10
5.0	2.6	0.8	1.11	10	28.00	1.35	2.5	1.6	0.33	10
5.0	2.2	0.7	0.83	10	19.00	1.00	1.5	1.1	0.25	10
5.0	2.0	0.8	1.11	10	19.00	1.00	1.5	1.1	0.25	10
5.0	2.8	0.8	1.11	10	28.00	1.35	2.5	1.6	0.33	10
5.0	2.9	0.7	0.83	10	33.00	1.35	3.2	2.1	0.33	10
5.0	2.0	0.6	0.83	10	19.00	1.00	1.5	1.1	0.25	10
5.0	3.4	0.9	0.83	10	32.00	1.35	3.1	2.0	0.33	10

z—Minimum 500 watts.

b—Direct-current service charge \$1.50 per kw per month for first 7½ kw plus \$1.05 per kw for all additional demand.

STATEMENT "D"**Statistics Relating to the Supply of Electrical Energy to
Customers in Urban Municipalities Served by The
Hydro-Electric Power Commission of Ontario**

The following tabulation gives much information that is useful and interesting from the standpoint of customers. Statement "D" lists the revenue, the consumption, the number of customers, unit average costs and consumptions, and other pertinent data for each main class of service in each urban municipal utility receiving power at cost from the Commission.

In the past the Commission has extended the benefits of electrical service to every community that could be reached economically by transmission lines. This practice is still the Commission's policy. Some municipalities are so distant from a source of supply and others have such small power requirements that the charge for delivering power is unavoidably higher than for communities more favourably situated. Even where difficult conditions obtain, however, service is provided if the customers are able and willing to pay the cost.

The accompanying diagram summarizes graphically certain data of statement "D" respecting the average cost to the customer. It shows how comparatively insignificant is the amount of energy sold in municipalities where relatively higher average costs to the customer prevail. With respect to power service, it should be noted that the statistics of statement "D", and of the diagram, cover mainly retail power service supplied to the smaller industrial customers. The average amount of power taken by the industrial customers served by the municipalities is about 50 kilowatts. The Commission serves certain large power customers direct on behalf of the systems of municipalities.

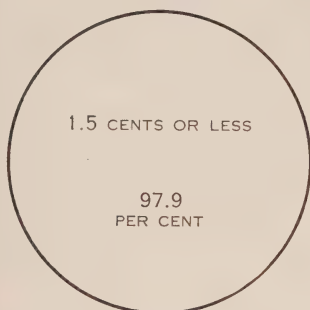
It should be kept in mind that the revenues reported in statement "D", and used for purposes of calculating the net unit costs to the customer, are the total revenues contributed by the customers, and provide, in addition to the cost of power, sums specifically applicable to the retirement of capital, and also operating surplus which is in part applied to retirement of capital or extension of plant and is in part returned in cash to the customers.

It should also be noted that average costs per kilowatt-hour or per horsepower, if employed indiscriminately as a criterion by means of which to compare the rates or prices for electrical service in various municipalities, will give misleading results. The average cost per kilowatt-hour, as given in statement "D" for respective classes of service in each municipality, are statistical results obtained by dividing the respective revenues by the aggregate kilowatt-hours sold. As such, the data reflect the combined influence of a number of factors, of which the rates or prices to customers are but one factor. Owing to the varying influence of factors other than the rates, it is seldom found that in any two municipalities the average cost per kilowatt-hour to the customers, even of the same classification, is in proportion to the respective rates for service. Instances even occur where for a class of customers in one municipality, the average costs per kilowatt-hour are substantially lower than for the same class in another municipality, even though the rates are higher.

**COST OF ELECTRICAL SERVICE TO CUSTOMERS
IN MUNICIPALITIES SERVED BY
THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO**

DOMESTIC SERVICE

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATT-HOURS SOLD FOR DOMESTIC SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CUSTOMERS INCLUSIVE OF ALL CHARGES IS, PER KILOWATT-HOUR:



1.51 TO 2.49 CENTS

2.0
PER CENT



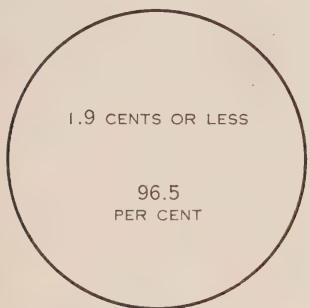
2.5 CENTS
OR MORE

0.1
PER CENT



COMMERCIAL LIGHT SERVICE

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATT-HOURS SOLD FOR COMMERCIAL LIGHT SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CUSTOMERS INCLUSIVE OF ALL CHARGES IS, PER KILOWATT-HOUR:



1.91 TO 2.99 CENTS

3.4
PER CENT



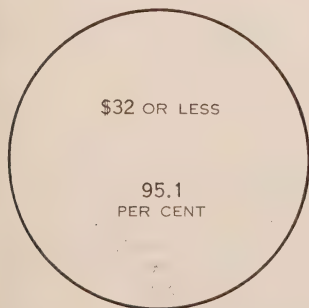
3.0 CENTS
OR MORE

0.1
PER CENT



POWER SERVICE SUPPLIED BY MUNICIPALITIES

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATTS SOLD FOR POWER SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CUSTOMERS INCLUSIVE OF ALL CHARGES IS, PER KILOWATT PER YEAR:



OVER \$32 BELOW \$40

4.7
PER CENT



\$40 OR MORE

0.2
PER CENT



For domestic service, for example, instances may be observed where two municipalities have identical prices or rates for domestic service, but the average cost per kilowatt-hour to the customer varies by as much as 50 per cent or more. Such variations are due principally to differences in the extent of utilization of the service for the operation of electric ranges, water-heaters, and other appliances, an indication of which is afforded by the statistics of average monthly consumption.

For power service, average unit costs are still less reliable as an indication of the relative rates for service in different municipalities. In the case of hydro-electric power supplied to industries at cost, the rate schedules incorporate charges both for demand and for energy consumption, and thus, although the quantity of power taken by a customer—that is, the demand as measured in kilowatts (or horsepower)—is the most important factor affecting costs and revenues, it is not the only one. The number of hours the power is used in the month or year—which determines the energy consumption in kilowatt-hours—also affects the costs and revenues. Consequently, in two municipalities charging the same rates for power service, the average cost per kilowatt to the customer will vary with the customers' average number of hours use of the power per month. A greater average energy consumption per kilowatt increases the average cost per kilowatt and decreases the average cost per kilowatt-hour to the customer, and *vice versa*.*

*In view of the fact that the data of statement "D" have been misinterpreted in the making of certain comparisons as to the cost of electricity in various territories, it is desirable to add a word of caution respecting their significance. Essentially, the average cost or revenue per kilowatt-hour is *not a criterion of rates* even with similar forms of rate schedules and for the same class of service. Particularly is this true when revenues and consumptions of all classes of service and of all kinds of rate schedules are indiscriminately lumped together in order to deduce a so-called "average cost or rate per kilowatt-hour" for all services.

In one community rates for each class of service, and the cost to every customer in each class for any given service and consumption, may be substantially higher than in another community, and yet there may be in the former community a lower "average revenue per kilowatt-hour."

EXAMPLE.—Assume sales of electrical energy by two electrical utilities, A and B, in each case 10,000,000 kilowatt-hours.

Class of service	CASE A Higher rates and lower revenues per kilowatt-hour			CASE B Lower rates and higher revenues per kilowatt-hour		
	Energy sales	Rate per kwh	Revenue	Energy sales	Rate per kwh	Revenue
	kwh	cents	\$	kwh	cents	\$
Residence.....	1,000,000	4	40,000	3,000,000	3	90,000
Power.....	9,000,000	1	90,000	7,000,000	0.75	52,500
Total.....	10,000,000	....	130,000	10,000,000	....	142,500
Average revenue....	1.3 cents per kwh			1.425 cents per kwh		

It will be observed that in Case A the rates both for residence and for power service are 33 per cent *higher* than in Case B, but the *average revenue* per kilowatt-hour is nearly 9 per cent less.

In this instance, the explanation lies in the *relative quantities* of energy sold to each class. Service to large power customers entails a smaller capital investment in distribution lines and equipment and lower operating costs per kilowatt-hour delivered, than does service to domestic and to commercial light customers, and even where the rates for all classes of service are low, produces a smaller average revenue per kilowatt-hour. Consequently, if one electrical utility as compared with another sells a larger proportion of its energy for power purposes, its "average revenue per kilowatt-hour" may easily be lower than that of the other utility even though its rates for every class of service are substantially higher.

Although the statistics of statement "D" are valueless as a means of comparing the *rates* in one municipality with those in another, they nevertheless fulfil a function in affording a general measure of the *economy of service* to customers in the co-operating Ontario municipalities—an economy that has resulted primarily from the low rates themselves, and secondarily from the extensive use of the service that has been made possible by the low rates.

Actual bills rendered to typical customers for similar service under closely comparable circumstances constitute the best basis for making comparisons. In researches respecting rates to customers therefore the actual *rates schedules* of statement "C" should be employed and not statistics of average revenues per kilowatt-hour.

In any consideration of the relative economies of electrical service in the various municipalities—whether based on the actual rates for service as given in statement "C", or on the statistics resulting from the rates and other factors as presented in statement "D"—full account should be taken respectively of the influence upon costs of such factors as the size of the municipality, the distance from the source of power, the features of the power developments, the sizes and concentrations of adjacent markets for electricity, and the sizes and characters of the loads supplied under the various classifications by the local electrical utility to the customers.

In statement "D" account has been taken of the sizes of municipalities by grouping them according to whether they are (i) cities—over 10,000 population; (ii) suburban areas densely populated; (iii) towns of 2,000 to 10,000 population; or (iv) small towns less than 2,000 population, villages, and suburban areas in townships. The populations are also given, and the situation of any municipality with respect to transmission lines and power supplies may be ascertained by consulting the maps at the end of the Report.

A feature of the electrical service in Ontario municipalities served by the Commission is the strikingly large annual consumption per domestic customer as the following summary illustrates.

Type of municipality	Number	Annual consumption per domestic customer			
		1,000 to 1,999 kwh	2,000 to 2,999 kwh	3,000 to 3,999 kwh	In excess of 4,000 kwh
Cities.....	27	0	3	15	9
Populous suburban areas.....	9	0	1	4	4
Towns.....	88	15	26	36	11
Villages, etc.....	188	82	69	30	7
Totals.....	312	97	99	85	31

The high average consumption for domestic service results essentially from the policy of the undertaking in providing service "at cost"; rate schedules designed according to this principle automatically encourage liberal use of the service. Under the standard rate schedules employed by Ontario municipalities, follow-up rates of 0.8 to 1.2 cents (less 10 per cent) are in common use. The cost of electric cooking is within reach of most of the domestic customers in Ontario. Low flat rates are also available for continuous electric water-heaters.

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Customers
For Domestic Service, for Commercial Light Service,

Group I—CITIES

Municipality	System	Popula- tion	Domestic service					Average monthly bill	Net cost per kilowatt-hour
			Revenue	Consumption	Number of cus- tomers	Monthly consumption per customer			
			\$	kwh		kwh	\$	cents	
Belleville.....	S.O.	19,220	202,296.08	25,517,338	5,209	408	3.24	0.79	
Brantford.....	S.O.	36,532	325,064.70	34,765,189	9,645	300	2.81	0.94	
Chatham.....	S.O.	21,223	184,655.86	12,107,085	5,557	182	2.77	1.52	
Fort William.....	T.B.	34,409	450,333.56	68,151,840	9,475	599	3.96	0.66	
Galt.....	S.O.	18,306	179,080.53	16,876,755	5,270	267	2.83	1.06	
Guelph.....	S.O.	26,617	250,964.42	23,818,041	6,847	290	3.05	1.05	
Hamilton.....	S.O.	196,246	1,661,396.42	156,404,273	52,159	250	2.65	1.06	
Kingston.....	S.O.	32,924	386,439.94	46,270,244	9,805	393	3.28	0.83	
Kitchener.....	S.O.	43,084	477,051.51	44,463,920	11,075	335	3.59	1.07	
London.....	S.O.	94,027	872,793.44	90,860,854	24,627	308	2.95	0.96	
Niagara Falls.....	S.O.	21,737	179,888.19	21,230,528	5,781	306	2.59	0.85	
North Bay.....	N.O.P.	18,295	175,963.27	17,475,790	4,324	337	3.39	1.01	
Oshawa.....	S.O.	29,771	362,445.75	32,249,733	8,182	328	3.69	1.12	
Ottawa.....	S.O.	193,319	2,225,928.18	272,940,891	50,143	454	3.70	0.82	
Owen Sound.....	S.O.	16,428	166,419.54	14,215,128	4,475	264	3.09	1.17	
Peterborough.....	S.O.	36,716	389,012.42	41,198,400	9,665	355	3.35	0.94	
Port Arthur.....	T.B.	31,842	357,765.95	39,682,290	8,362	396	3.56	0.90	
St. Catharines.....	S.O.	37,543	328,146.75	33,227,314	10,377	267	2.64	0.95	
St. Thomas.....	S.O.	19,807	206,831.11	20,538,537	5,291	324	3.26	1.01	
Sarnia.....	S.O.	23,550	227,012.78	18,047,807	6,369	236	2.97	1.26	
Stratford.....	S.O.	18,836	213,190.12	20,557,151	5,168	331	3.44	1.04	
Sudbury.....	N.O.P.	47,054	430,548.53	37,271,454	10,410	298	3.45	1.16	
Toronto.....	S.O.	667,487	6,012,212.49	609,864,790	157,058	324	3.19	0.99	
Toronto d-c & 60 cycle*.....			3,644.74	309,011	113	228	2.69	1.18	
Waterloo.....	S.O.	11,465	125,053.96	13,963,904	3,024	385	3.45	0.90	
Welland.....	S.O.	15,729	80,641.03	8,082,332	3,614	186	1.86	1.00	
Windsor.....	S.O.	121,011	1,098,079.16	95,344,018	29,565	269	3.10	1.15	
Woodstock.....	S.O.	14,710	166,606.51	15,659,193	4,175	313	3.33	1.06	

Group II—VOTED AREAS adjacent to

Brantford Twp.....	S.O.	.....	144,243.80	12,316,143	2,986	344	4.03	1.17	
East York Twp.....	S.O.	60,155	616,002.88	56,753,988	16,152	293	3.18	1.10	
Etobicoke Twp.....	S.O.	.....	591,422.96	65,093,056	13,643	398	3.61	0.91	
London Twp.....	S.O.	.....	30,975.25	2,706,723	724	312	3.57	1.14	
North York Twp.....	S.O.	.....	983,061.14	87,613,539	22,451	325	3.65	1.10	
Scarborough Twp.....	S.O.	.....	417,471.17	34,640,698	11,849	244	2.94	1.20	
Stamford Twp.....	S.O.	15,633	161,287.23	16,509,886	4,109	335	3.27	0.98	
Toronto Twp.....	S.O.	.....	276,356.10	25,297,257	5,480	385	4.20	1.10	
York Twp.....	S.O.	95,669	871,508.94	89,394,350	26,089	286	2.78	0.97	

*This—with the exception of a relatively small d-c power load—is a special service not created by the Commission but acquired through the purchase of a privately-owned company. It does not include street railway power.

"D"

**in Ontario Urban Municipalities Served by the Commission
and for Power Service during the year 1950**

Population, 10,000 or more

Commercial light service						Power service			Total number of cus- tomers
Revenue	Consumption	Number of cus- tomers	Monthly consumption per customer	Average monthly bill	Net cost per kilowatt-hour	Revenue	Number of cus- tomers	Average monthly total of power cus- tomers' loads	
\$	kwh		kwh	\$	cents	\$	kw		
108,873.19	9,206,530	729	1,052	12.45	1.18	89,095.16	138	4,071.9	6,076
153,689.75	13,190,895	1,555	707	8.24	1.17	504,239.16	251	20,674.2	11,451
188,862.75	10,986,220	1,009	907	15.60	1.72	218,330.25	161	6,964.3	6,727
193,412.96	18,845,548	1,382	1,136	11.66	1.20	390,099.38	197	16,176.7	11,054
90,395.61	5,659,032	603	782	12.49	1.60	233,163.18	161	9,712.4	6,034
98,916.99	7,490,132	851	733	9.69	1.32	244,387.64	176	10,025.0	7,874
824,134.54	70,561,505	6,540	899	10.50	1.17	3,914,085.40	1,271	152,341.5	59,970
215,554.34	18,890,710	1,265	1,244	14.19	1.14	234,967.36	207	9,901.9	11,277
251,040.60	16,741,514	1,349	1,034	15.51	1.50	751,096.86	363	24,651.3	12,787
371,330.81	30,597,911	2,370	1,076	13.06	1.21	732,928.18	420	29,406.7	27,417
120,254.58	10,315,092	939	915	10.67	1.17	155,862.10	139	6,765.7	6,859
90,013.10	6,776,028	788	717	9.52	1.33	78,485.28	102	2,527.7	5,214
131,144.89	7,721,070	907	709	12.05	1.70	550,700.76	162	17,031.1	9,251
1,630,131.02	126,162,965	6,853	1,534	19.82	1.29	768,056.28	972	33,137.6	57,969
92,483.15	5,881,460	676	787	12.37	1.57	117,377.53	117	4,814.2	5,268
163,321.76	11,611,698	1,324	731	10.28	1.41	347,814.08	210	13,558.1	11,199
188,569.16	15,328,735	1,121	1,139	14.00	1.23	432,652.19	147	26,501.1	9,630
178,116.83	13,593,342	1,332	850	11.14	1.31	611,436.40	265	24,149.4	11,974
91,347.52	7,567,019	665	948	11.45	1.21	133,629.04	100	5,301.4	6,056
120,573.18	8,211,466	800	855	12.56	1.47	352,848.04	109	8,887.0	7,278
73,077.15	5,085,073	685	619	8.89	1.44	92,825.53	141	3,941.1	5,994
202,019.05	12,182,352	1,328	764	12.67	1.66	74,225.85	157	2,740.8	11,895
4,413,789.32	324,214,379	26,600	1,016	13.83	1.36	16,654,289.67	5,404	213,583.5	189,062
74,581.10	4,227,291	232	1,518	26.79	1.76	243,777.50	600	7,737.5	945
49,424.24	3,609,756	311	967	13.24	1.37	123,897.26	86	4,278.2	3,421
69,460.43	5,556,240	583	794	9.93	1.25	250,072.29	103	9,739.9	4,300
644,827.71	42,912,824	3,915	913	13.73	1.50	1,141,242.19	621	41,459.2	34,101
90,773.64	6,010,978	560	895	13.51	1.51	163,078.43	125	6,426.0	4,860

cities and which are predominantly urban

20,607.67	907,013	122	620	14.08	2.27	19,408.95	17	575.9	3,125
69,993.67	5,257,762	698	628	8.36	1.30	111,098.83	91	4,223.1	16,941
109,193.83	8,336,867	828	839	10.99	1.31	159,510.24	149	6,376.8	14,620
3,773.49	236,567	19	1,038	16.55	1.59	1,557.10	4	49.7	747
146,873.59	8,364,430	1,171	595	10.45	1.80	186,475.94	148	6,897.3	23,770
111,457.57	8,363,937	939	742	9.89	1.30	122,733.84	136	5,107.3	12,924
38,916.82	2,268,206	284	666	11.42	1.70	36,069.73	33	1,475.2	4,426
51,050.45	3,155,659	417	631	10.20	1.60	103,712.21	95	3,569.7	5,992
180,037.81	12,215,840	1,645	619	9.12	1.50	293,890.18	303	11,202.8	28,037

†Does not include street railway power.

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Customers
For Domestic Service, for Commercial Light Service,

Group III—TOWNS

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of cus- tomers	Monthly consumption per customer	Average monthly bill	Net cost per kilowatt-hour
			\$	kwh		kwh	\$	cents
Acton.....	S.O.	3,030	30,311.79	2,890,158	786	306	3.21	1.05
Alexandria.....	S.O.	2,163	16,537.75	1,094,758	566	161	2.43	1.51
Almonte.....	S.O.	2,527	24,947.04	2,485,018	738	281	2.82	1.00
Amherstburg.....	S.O.	3,444	43,094.41	3,793,258	909	348	3.95	1.14
Arnprior.....	S.O.	4,326	34,111.35	3,056,665	1,097	232	2.59	1.12
Aurora.....	S.O.	3,697	43,287.13	4,163,536	982	353	3.67	1.04
Aylmer.....	S.O.	3,481	28,049.05	2,943,062	947	259	2.47	0.95
Barrie.....	S.O.	12,904	137,267.92	14,425,313	3,333	361	3.43	0.95
Blenheim.....	S.O.	2,439	15,643.83	1,068,112	720	124	1.82	1.47
Bowmanville.....	S.O.	*4,903	60,472.96	5,107,773	1,584	269	3.18	1.18
Brampton.....	S.O.	7,702	89,645.94	8,759,660	2,188	334	3.41	1.02
Brockville.....	S.O.	11,845	113,843.83	12,015,470	3,412	293	2.78	0.95
Burlington.....	S.O.	5,952	79,209.34	6,946,671	1,778	326	3.71	1.14
Carleton Place.....	S.O.	4,616	36,536.13	3,418,610	1,270	224	2.40	1.07
Clinton.....	S.O.	2,405	28,830.50	2,893,054	737	328	3.26	1.00
Cobourg.....	S.O.	7,517	77,416.47	7,002,409	1,968	297	3.28	1.10
Collingwood.....	S.O.	7,305	59,990.30	4,883,249	2,072	196	2.41	1.23
Delhi.....	S.O.	2,506	25,230.73	1,828,120	803	190	2.62	1.38
Dresden.....	S.O.	2,050	13,299.60	761,752	590	108	1.88	1.74
Dundas.....	S.O.	6,547	53,400.80	4,274,668	1,971	181	2.26	1.25
Dunnville.....	S.O.	4,440	23,880.49	1,809,637	1,252	120	1.59	1.32
Durham.....	S.O.	2,294	16,114.67	1,094,785	551	166	2.44	1.50
Elmira.....	S.O.	2,510	28,480.07	2,544,565	692	306	3.43	1.12
Essex.....	S.O.	2,758	20,881.18	1,488,510	748	166	2.33	1.40
Exeter.....	S.O.	2,624	34,392.18	3,039,258	784	323	3.66	1.13
Fergus.....	S.O.	3,291	38,451.12	3,158,805	930	283	3.45	1.22
Forest Hill.....	S.O.	16,191	265,986.02	29,623,192	4,332	570	5.12	0.90
Georgetown.....	S.O.	3,406	43,369.09	4,139,773	1,157	298	3.12	1.05
Goderich.....	S.O.	*4,991	65,888.04	5,077,595	1,585	267	3.46	1.30
Gravenhurst.....	S.O.	*3,365	28,102.94	3,131,825	950	275	2.47	0.90
Grimsby.....	S.O.	2,574	22,583.67	2,401,380	822	244	2.26	0.94
Hanover.....	S.O.	3,766	42,525.36	3,467,025	1,072	269	3.31	1.23
Hespeler.....	S.O.	3,696	37,152.47	2,936,171	999	245	3.10	1.27
Humberstone.....	S.O.	3,722	20,243.33	1,492,577	940	132	1.79	1.36
Huntsville.....	S.O.	*3,340	29,659.42	3,030,890	844	293	2.99	0.98
Ingersoll.....	S.O.	6,431	59,059.24	4,792,620	1,806	221	2.73	1.24
Kincardine.....	S.O.	*2,790	27,274.57	2,052,792	863	198	2.63	1.33
Kingsville.....	S.O.	*2,560	25,009.42	1,918,480	818	195	2.55	1.31
Leamington.....	S.O.	*7,525	52,522.65	4,234,977	2,088	169	2.10	1.24
Lindsay.....	S.O.	9,349	94,806.09	8,969,085	2,678	279	2.95	1.06

*Does not include summer population.

“D”—Continued

in Ontario Urban Municipalities Served by the Commission
and for Power Service during the year 1950

population 2,000 or more

Commercial light service						Power service			Total number of cus- tomers
Revenue	Consumption	Number of cus- tomers	Monthly consumption per customer	Average monthly bill	Net cost per kilowatt-hour	Revenue	Number of cus- tomers	Average monthly total of power cus- tomers' loads	
\$	kwh		kwh	\$	cents	\$	kw		
12,560.26	805,652	116	579	9.02	1.56	52,008.49	23	1,821.2	925
13,122.58	640,221	150	356	7.29	2.05	6,398.36	16	182.4	732
9,408.65	526,522	116	378	6.76	1.79	21,516.67	28	781.1	882
18,187.13	1,460,142	187	651	8.11	1.25	15,590.85	22	549.2	1,118
19,424.11	1,400,503	186	627	8.70	1.39	26,920.15	30	1,122.9	1,313
15,319.05	1,530,333	146	873	8.74	1.00	31,872.41	29	1,187.3	1,157
19,288.89	1,613,474	210	640	7.65	1.20	23,722.66	28	959.7	1,185
76,614.51	5,616,640	542	864	11.78	1.36	68,460.70	83	2,761.0	3,958
16,164.48	1,071,786	175	510	7.70	1.51	14,516.07	21	462.2	916
21,284.16	1,205,619	201	500	8.82	1.76	78,726.79	31	2,495.1	1,816
34,477.64	2,380,671	321	618	8.95	1.45	39,136.23	72	1,614.1	2,581
45,841.09	4,040,677	505	667	7.56	1.13	151,367.52	88	5,669.0	4,005
30,898.73	1,840,475	210	730	12.26	1.68	27,069.80	26	753.6	2,014
16,127.21	983,752	216	380	6.22	1.64	35,883.33	20	1,409.0	1,506
13,246.62	818,472	154	443	7.17	1.62	12,299.88	23	428.9	914
34,405.27	2,086,394	274	634	10.46	1.65	52,684.55	61	1,905.0	2,303
26,800.43	1,734,945	344	420	6.49	1.55	50,358.12	63	2,329.3	2,479
21,972.09	1,082,669	218	414	8.40	2.03	9,633.48	25	323.8	1,046
12,844.04	736,788	160	384	6.69	1.74	14,493.58	20	516.8	770
28,139.84	1,791,207	244	612	9.61	1.57	58,266.95	49	2,466.4	2,264
23,846.04	1,755,916	278	526	7.15	1.36	34,138.28	32	1,377.5	1,562
10,583.74	525,865	130	337	6.78	2.00	7,135.10	18	227.9	699
17,659.75	1,045,768	143	609	10.29	1.69	40,867.57	28	1,234.8	863
17,812.45	1,161,313	154	628	9.64	1.54	13,837.78	25	589.5	927
16,531.81	1,023,184	160	533	8.61	1.65	9,619.69	22	474.5	966
15,182.70	910,507	130	584	9.73	1.67	31,166.78	18	1,086.8	1,078
59,811.56	4,128,311	390	882	12.78	1.45	6,535.87	42	284.3	4,764
15,909.16	1,028,515	166	516	7.99	1.55	48,442.05	33	1,805.0	1,356
32,760.23	1,815,630	287	527	9.51	1.80	31,391.98	44	1,147.3	1,916
15,765.00	1,525,766	162	785	8.11	1.03	21,237.39	22	846.7	1,134
15,483.00	1,170,140	158	617	8.17	1.32	12,878.07	20	499.9	1,000
14,350.26	906,692	174	434	6.87	1.58	38,775.11	35	1,681.3	1,281
13,855.36	761,265	114	556	10.13	1.82	106,708.60	34	3,256.3	1,147
10,024.24	681,157	132	430	6.33	1.47	9,262.63	15	437.0	1,087
25,854.41	1,728,542	175	823	12.31	1.50	21,337.99	25	840.4	1,044
32,120.28	2,035,880	260	653	10.29	1.58	76,484.21	51	2,846.5	2,117
14,841.97	718,642	150	399	8.24	2.06	23,023.58	23	899.2	1,036
16,318.10	1,080,057	196	459	6.94	1.51	7,558.90	24	317.1	1,038
32,701.87	2,548,115	382	556	7.13	1.28	45,078.24	52	1,594.8	2,522
55,998.35	3,413,500	422	674	11.06	1.64	59,268.34	77	2,390.6	3,177

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Customers
For Domestic Service, for Commercial Light Service,

Group III—TOWNS

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of cus- tomers	Monthly consumption per customer	Average monthly bill	Net cost per kilowatt-hour
			\$	kwh		kwh	\$	cents
Listowel.....	S.O.	3,255	37,692.18	2,945,840	986	249	3.19	1.28
Long Branch.....	S.O.	8,044	73,368.02	8,471,470	2,224	317	2.75	0.87
McGarry.....	N.O.P.	2,187	19,252.93	991,273	298	277	5.38	1.94
Meaford.....	S.O.	3,114	28,311.10	2,115,906	985	179	2.40	1.34
Merritton.....	S.O.	4,572	43,480.49	4,067,960	1,229	276	2.95	1.07
Midland.....	S.O.	*7,260	62,989.76	6,143,130	2,033	252	2.58	1.03
Milton.....	S.O.	2,405	24,951.24	2,242,652	692	270	3.00	1.11
Mimico.....	S.O.	10,410	115,634.46	10,818,595	2,920	309	3.30	1.07
Mount Forest.....	S.O.	2,168	18,955.07	1,353,670	605	186	2.61	1.40
Napanee.....	S.O.	3,769	46,092.44	3,961,599	1,099	300	3.50	1.16
Newmarket.....	S.O.	5,036	51,681.51	5,194,380	1,380	314	3.12	0.99
New Toronto.....	S.O.	10,961	90,971.91	9,043,053	2,372	318	3.20	1.01
Oakville.....	S.O.	6,371	59,009.50	4,809,163	1,800	223	2.73	1.20
Orangeville.....	S.O.	3,273	31,155.35	2,462,230	891	230	2.91	1.22
Paris.....	S.O.	5,134	44,641.36	4,034,877	1,341	251	2.77	1.10
Parry Sound.....	S.O.	5,148	48,558.03	2,938,053	1,366	179	2.96	1.70
Penetanguishene.....	S.O.	4,793	24,818.47	1,973,064	1,011	163	2.05	1.26
Perth.....	S.O.	4,786	47,322.76	3,853,906	1,373	234	2.87	1.23
Petrolia.....	S.O.	3,006	22,747.53	1,395,421	889	131	2.13	1.63
Pictou.....	S.O.	4,217	42,507.34	4,453,384	1,300	285	2.72	0.95
Port Colborne.....	S.O.	8,008	46,646.48	3,458,140	1,978	146	1.97	1.35
Port Credit.....	S.O.	3,342	44,513.14	4,519,890	928	406	4.00	0.98
Port Dalhousie.....	S.O.	*2,368	38,120.73	3,820,784	862	369	3.69	1.00
Port Dover.....	S.O.	*2,442	19,398.13	1,539,696	954	134	1.69	1.26
Port Hope.....	S.O.	6,131	70,723.25	7,042,183	1,891	310	3.12	1.00
Prescott.....	S.O.	3,357	39,349.37	2,753,221	915	251	3.58	1.43
Preston.....	S.O.	7,368	70,389.64	6,124,778	1,939	263	3.03	1.15
Renfrew.....	S.O.	7,069	57,149.43	4,175,550	1,820	191	2.62	1.37
Richmond Hill.....	S.O.	2,133	26,821.62	2,738,598	616	370	3.63	0.98
Ridgetown.....	S.O.	2,211	14,013.30	1,030,274	720	119	1.62	1.36
Riverside.....	S.O.	8,600	92,611.39	6,819,230	2,524	225	3.06	1.36
St. Marys.....	S.O.	3,912	59,232.35	4,507,125	1,196	314	4.13	1.32
Seaforth.....	S.O.	2,072	24,935.43	1,741,147	637	228	3.26	1.43
Simcoe.....	S.O.	7,078	46,366.82	4,135,696	2,008	172	1.92	1.12
Sioux Lookout.....	N.O.P.	2,225	31,261.83	1,797,577	658	227	3.95	1.70
Smiths Falls.....	S.O.	8,358	93,315.41	8,794,893	2,372	309	3.28	1.06
Strathroy.....	S.O.	3,581	42,611.29	3,981,325	1,106	300	3.21	1.07
Swansea.....	S.O.	7,864	112,994.68	11,535,050	2,405	400	3.92	0.98
Tecumseh.....	S.O.	*3,335	27,057.95	1,626,980	934	145	2.41	1.66
Thorold.....	S.O.	6,389	40,271.44	4,049,241	1,585	213	2.12	0.99
Tilbury.....	S.O.	2,848	18,218.32	1,467,302	740	165	2.05	1.24
Tillsonburg.....	S.O.	4,991	40,099.83	3,347,535	1,533	182	2.18	1.20
Trenton.....	S.O.	9,766	81,464.40	10,292,669	2,537	338	2.68	0.79
Walkerton.....	S.O.	3,247	33,529.14	2,479,128	864	239	3.23	1.31
Wallaceburg.....	S.O.	7,225	49,596.32	3,736,134	1,935	161	2.14	1.33
Weston.....	S.O.	8,018	103,473.02	11,176,690	2,175	428	3.96	0.93
Whitby.....	S.O.	7,021	63,362.02	5,411,863	1,365	330	3.87	1.17
Wingham.....	S.O.	2,611	31,992.35	2,365,972	737	268	3.62	1.35

*Does not include summer population.

“D”—Continued

in Ontario Urban Municipalities Served by the Commission
and for Power Service during the year 1950
population 2,000 or more

Commercial light service						Power service			Total number of customers
Revenue	Consumption	Number of customers	Monthly consumption per customer	Average monthly bill	Net cost per kilowatt-hour	Revenue	Number of customers	Average monthly total of power customers' loads	
\$	kwh		kwh	\$	cents	\$		kw	
24,035.80	1,361,075	187	607	10.71	1.76	24,833.71	33	930.8	1,206
18,071.50	1,445,647	224	538	6.72	1.25	31,134.73	24	1,313.9	2,472
7,934.82	638,624	55	968	12.02	1.24				353
17,322.53	976,079	189	430	7.64	1.78	18,759.42	26	652.7	1,200
10,056.01	511,090	93	458	9.01	1.97	304,451.63	21	10,233.7	1,343
28,308.89	2,071,715	247	699	9.55	1.37	85,481.44	58	4,033.5	2,338
11,766.97	802,546	154	434	6.37	1.47	39,375.13	23	1,257.9	869
27,928.76	1,967,035	236	695	9.86	1.42	31,522.76	40	1,107.8	3,196
13,982.50	805,165	160	419	7.28	1.70	10,077.97	19	396.7	784
31,707.51	1,804,267	241	624	10.96	1.76	18,925.70	30	674.0	1,370
25,693.16	1,441,084	213	564	10.05	1.78	34,355.65	41	1,184.7	1,634
45,101.61	3,584,135	294	1,016	12.78	1.26	309,234.33	56	10,467.6	2,722
45,528.22	2,240,934	252	741	15.06	2.00	72,916.23	69	2,645.7	2,121
21,208.46	1,306,662	215	506	8.22	1.62	8,885.51	35	463.3	1,141
15,279.19	1,190,447	204	486	6.24	1.28	34,539.71	32	1,611.6	1,577
31,758.59	1,462,545	263	463	10.06	2.20	14,481.58	24	407.3	1,653
14,855.22	969,910	150	539	8.25	1.53	22,784.59	19	807.2	1,180
26,247.34	1,626,394	235	577	9.31	1.61	23,041.51	35	991.8	1,643
16,256.01	909,025	195	382	6.95	1.7	27,245.91	63	727.7	1,147
26,876.56	2,086,671	280	621	8.00	1.29	15,832.79	46	777.1	1,626
33,425.45	2,042,221	282	603	9.88	1.64	30,782.54	32	1,050.4	2,292
16,558.39	1,132,465	136	694	10.15	1.46	11,892.89	17	353.5	1,081
7,887.23	654,766	79	691	8.32	1.20	8,870.67	12	394.9	953
11,020.31	756,717	179	352	5.13	1.46	8,744.70	21	379.7	1,154
29,187.01	1,953,909	249	654	9.77	1.49	75,588.60	45	2,618.7	2,185
20,194.94	1,064,668	169	525	9.96	1.90	17,101.00	28	747.2	1,112
29,945.45	1,966,448	254	645	9.82	1.52	86,598.15	60	3,607.7	2,253
26,361.91	1,620,351	250	540	8.79	1.63	56,099.05	68	2,011.2	2,138
9,483.93	591,212	112	440	7.06	1.60	4,034.22	19	257.5	747
13,110.18	811,628	167	405	6.54	1.62	9,606.55	25	409.6	912
15,343.39	943,196	143	550	8.94	1.63	10,519.00	15	314.6	2,682
22,339.76	999,075	209	398	8.91	2.24	35,196.67	42	1,103.5	1,447
16,478.91	801,388	123	543	11.16	2.06	20,290.36	23	750.2	783
48,782.21	3,947,848	457	720	8.90	1.24	43,886.35	70	1,767.6	2,535
21,471.50	755,323	104	605	17.20	2.80	6,488.01	11	147.8	773
46,587.46	3,181,462	345	768	11.25	1.46	40,298.62	47	1,627.1	2,764
22,544.92	1,410,054	219	537	8.58	1.60	23,082.56	39	1,045.0	1,364
23,735.94	1,421,620	135	878	14.65	1.67	33,496.51	28	1,251.9	2,568
9,207.46	527,349	89	494	8.62	1.74	9,895.47	8	235.0	1,031
15,408.20	1,409,919	180	653	7.13	1.09	83,660.11	34	2,861.0	1,799
13,251.87	792,656	147	449	7.51	1.67	29,731.55	22	1,321.8	909
35,554.60	2,416,755	334	603	8.87	1.47	34,030.07	47	1,338.2	1,914
32,570.92	2,794,332	324	719	8.38	1.17	106,612.37	64	3,590.7	2,925
23,018.30	1,204,238	179	561	10.71	1.91	17,623.76	21	493.1	1,064
33,117.47	2,498,257	326	639	8.47	1.33	205,990.35	69	6,853.4	2,330
33,319.38	2,360,617	243	810	11.43	1.41	108,791.52	50	3,808.6	2,468
24,176.91	1,419,925	202	586	9.97	1.70	31,736.27	35	1,026.5	1,602
18,986.17	992,047	156	530	10.14	1.91	25,295.35	27	722.3	921

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Customers
For Domestic Service, for Commercial Light Service,

Group IV—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of cus- tomers	Monthly consumption per customer	Average monthly bill	Net cost per kilowatt-hour
			\$	kwh		kwh	\$	cents
Agincourt.....	S.O.	824	12,264.38	1,106,421	246	375	4.15	1.10
Ailsa Craig.....	S.O.	481	4,977.34	355,860	168	177	2.47	1.40
Alliston.....	S.O.	1,829	22,077.55	1,633,702	551	247	3.34	1.40
Alvinston.....	S.O.	664	4,799.76	213,700	241	74	1.66	2.24
Ancaster Twp.....	S.O.	.....	28,466.07	2,102,391	490	358	4.84	1.35
Apple Hill.....	S.O.	464	2,061.47	86,842	81	89	2.12	2.40
Arkona.....	S.O.	361	5,060.88	302,829	135	187	3.12	1.67
Arthur.....	S.O.	1,158	10,314.77	540,375	300	150	2.86	1.90
Athens.....	S.O.	781	8,483.17	315,826	242	109	2.92	2.70
Ayr.....	S.O.	855	10,015.93	731,970	264	231	3.16	1.37
Baden.....	S.O.	692	7,883.83	602,210	189	266	3.48	1.31
†Bancroft.....	S.O.	1,220	12,227.40	264,965	311	.....	.....	.....
†Barry's Bay.....	S.O.	1,294	6,471.11	111,727	233	.....	.....	.....
Bath.....	S.O.	*373	5,219.39	200,759	89	188	4.89	2.60
Beachville.....	S.O.	656	7,081.25	611,385	203	251	2.91	1.16
Beamsville.....	S.O.	1,684	19,047.17	1,999,337	507	329	3.13	0.95
Beaverton.....	S.O.	*841	12,755.52	876,554	413	177	2.57	1.50
Beeton.....	S.O.	576	5,686.52	302,730	176	143	2.69	1.90
Belle River.....	S.O.	1,358	11,579.66	653,170	470	116	2.05	1.77
Bloomfield.....	S.O.	616	5,353.39	404,796	209	161	2.13	1.32
Blyth.....	S.O.	625	6,656.64	453,530	224	169	2.48	1.47
Bobcaygeon.....	S.O.	*1,117	16,116.71	571,217	440	108	3.05	2.82
Bolton.....	S.O.	818	9,151.37	808,590	240	281	3.18	1.10
Bothwell.....	S.O.	691	4,346.78	336,832	217	129	1.67	1.30
Bradford.....	S.O.	1,547	16,228.97	1,078,720	400	225	3.38	1.50
Braeside.....	S.O.	484	2,663.24	145,276	105	115	2.11	1.80
Brechin.....	S.O.	266	2,324.97	101,185	61	138	3.18	2.30
Bridgeport.....	S.O.	.....	9,920.83	798,315	272	246	3.04	1.24
Brigden.....	S.O.	424	2,901.15	151,380	137	92	1.77	1.92
Brighton.....	S.O.	1,999	23,015.84	1,866,453	611	255	3.14	1.23
Brussels.....	S.O.	814	8,601.36	560,725	290	161	2.47	1.53
Burford.....	S.O.	847	11,529.46	974,039	278	291	3.46	1.19
Burgessville.....	S.O.	222	2,803.06	151,685	67	189	3.49	1.85
†Burks Falls.....	S.O.	850	5,674.02	151,900	230	.....	.....	.....
Caledonia.....	S.O.	1,645	12,493.52	815,922	519	131	2.01	1.53
Campbellville.....	S.O.	225	2,605.92	169,245	66	214	3.29	1.50
Cannington.....	S.O.	856	9,180.02	595,240	304	163	2.52	1.50
Capreol.....	N.O.P.	1,897	22,302.83	1,590,937	542	245	3.43	1.40
Cardinal.....	S.O.	1,739	15,889.28	1,191,365	448	222	2.96	1.30
Cayuga.....	S.O.	742	6,338.76	314,887	211	124	2.50	2.02

*Does not include summer population.

†8 months' operation.

‡10 months' operation.

“D”—Continued

in Ontario Urban Municipalities Served by the Commission
and for Power Service during the year 1950

VILLAGES, AND CERTAIN SUBURBAN AREAS

Commercial light service						Power service			Total number of customers
Revenue	Consumption	Number of customers	Monthly consumption per customer	Average monthly bill	Net cost per kilowatt-hour	Revenue	Number of customers	Average monthly total of power customers' loads	
\$	kwh		kwh	\$	cents	\$	kw		
3,480.45	159,910	39	342	7.44	2.20	7,722.58	8	221.0	293
2,164.65	95,664	41	194	4.40	2.27	2,511.43	4	89.6	213
12,868.94	617,647	145	355	7.40	2.10	9,738.23	25	320.6	721
3,899.01	173,232	58	249	5.60	2.25	1,741.26	7	52.5	306
7,821.89	302,809	48	526	13.58	2.58	2,038.63	11	76.6	549
1,208.22	50,528	24	175	4.20	2.40	478.50	1	14.5	106
2,622.62	94,848	40	198	5.46	2.76	150.34	1	3.7	176
8,789.31	362,736	91	332	8.04	2.40	2,994.39	9	127.4	400
4,253.07	143,562	55	218	6.44	2.96	557.49	2	21.7	299
4,426.02	210,613	52	338	7.09	2.10	3,926.82	8	140.0	324
2,968.42	189,645	35	452	7.07	1.56	15,436.38	3	510.4	227
10,852.52	226,348	103	.....	.....	.....	2,059.18	4	.....	418
4,351.85	92,350	54	.....	.....	.....	571.64	2	.....	289
1,386.24	56,000	21	222	5.50	2.47	329.49	1	19.4	111
784.24	45,368	27	140	2.42	1.73	25,477.70	3	787.3	233
7,097.32	437,322	90	405	6.57	1.60	3,209.41	9	155.9	606
5,586.97	348,655	82	354	5.68	1.60	4,865.37	13	267.5	508
4,230.59	173,765	42	345	8.39	2.40	1,375.07	6	51.7	224
6,650.50	380,960	73	435	7.59	1.75	2,667.10	6	70.4	549
4,412.81	231,115	49	393	7.50	1.91	2,250.35	8	80.5	266
3,699.50	176,960	58	254	5.32	2.09	5,731.40	7	148.3	289
9,026.14	280,282	96	243	7.84	3.22	879.05	3	22.0	539
4,638.18	228,332	57	334	6.78	2.00	3,949.82	14	162.1	311
3,345.81	225,233	65	289	4.29	1.48	2,180.39	10	103.7	292
13,010.51	557,510	102	456	10.63	2.30	12,534.01	23	420.1	525
596.64	21,910	10	183	4.97	2.70	6,927.59	3	209.9	118
1,812.64	53,233	23	193	6.57	3.40	859.60	1	25.5	85
2,801.65	162,448	26	521	8.98	1.72	2,373.89	5	95.5	303
2,348.94	106,800	47	189	4.17	2.21	3,777.60	6	119.1	190
9,400.95	529,003	135	327	5.80	1.78	5,939.04	11	247.0	757
4,624.16	250,685	69	303	5.58	1.84	4,448.20	9	128.4	368
4,166.57	241,479	52	387	6.68	1.73	3,415.14	6	147.9	336
1,053.85	49,104	21	195	4.18	2.14	1,412.67	3	53.8	91
6,288.08	182,470	66	.....	.....	.....	637.31	2	.....	298
9,338.08	615,097	117	438	6.65	1.52	3,838.47	10	121.6	646
666.07	30,240	12	210	4.63	2.20	404.09	1	6.8	79
4,032.93	168,270	74	189	4.54	2.40	3,443.43	12	152.6	390
6,696.90	352,240	82	358	6.81	1.90	8,931.24	2	209.9	626
5,354.97	291,230	64	379	6.97	1.80	652.17	4	24.0	516
6,113.95	276,791	74	312	6.89	2.21	5,992.12	12	183.8	297

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Customers
For Domestic Service, for Commercial Light Service,

Group IV—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of cus- tomers	Monthly consumption per customer	Average monthly bill	Net cost per kilowatt-hour
			\$	kwh		kwh	\$	cents
Chatsworth.....	S.O.	374	3,885.96	272,950	129	176	2.51	1.40
Chesley.....	S.O.	1,707	18,328.14	1,526,186	538	236	2.83	1.20
Chesterville.....	S.O.	1,165	8,602.10	768,970	298	215	2.41	1.10
Chippawa.....	S.O.	1,584	13,622.77	1,438,015	466	257	2.44	0.90
Clifford.....	S.O.	451	5,308.79	367,169	150	204	2.95	1.45
Cobden.....	S.O.	771	6,248.41	479,571	232	172	2.24	1.30
Colborne.....	S.O.	1,114	13,389.53	984,341	358	229	3.12	1.36
Coldwater.....	S.O.	640	6,005.02	421,265	177	198	2.83	1.40
Comber.....	S.O.	550	3,412.62	173,180	155	93	1.83	1.97
Cookstown.....	S.O.	453	4,424.49	232,715	148	131	2.49	1.90
Cottam.....	S.O.	504	4,716.62	304,760	168	151	2.34	1.55
Courtright.....	S.O.	505	2,875.34	139,370	138	84	1.74	2.07
Creemore.....	S.O.	738	6,723.64	438,376	218	168	2.57	1.50
Dashwood.....	S.O.	366	5,330.58	310,284	125	207	3.55	1.72
Delaware.....	S.O.	332	4,007.50	340,054	90	315	3.71	1.18
Deseronto.....	S.O.	1,463	15,832.91	916,171	491	155	2.69	1.73
Dorchester.....	S.O.	483	5,341.50	407,167	186	182	2.39	1.31
Drayton.....	S.O.	614	6,564.10	331,298	196	141	2.79	1.98
Drumbo.....	S.O.	334	4,498.37	304,467	117	217	3.20	1.47
Dublin.....	S.O.	201	2,904.49	176,900	71	208	3.41	1.64
Dundalk.....	S.O.	804	6,594.35	435,800	247	147	2.22	1.50
Dutton.....	S.O.	863	4,937.49	367,509	249	123	1.65	1.34
Elmvale.....	S.O.	785	7,001.86	547,975	230	199	2.54	1.30
Elmwood.....	S.O.		2,322.29	133,925	97	115	1.99	1.70
Elora.....	S.O.	1,321	14,642.00	1,019,232	407	209	3.00	1.44
Embro.....	S.O.	446	6,514.40	462,866	152	254	3.57	1.41
Erieau.....	S.O.	*404	8,104.05	497,688	264	157	2.56	1.63
Erie Beach.....	S.O.	* 59	2,267.35	62,650	118	44	1.60	3.64
†Erin.....	S.O.	625	5,064.35	222,985	234			
Finch.....	S.O.	388	4,090.98	278,140	134	173	2.54	1.50
Flesherton.....	S.O.	468	4,002.33	262,210	148	148	2.25	1.50
Fonthill.....	S.O.	1,386	15,661.37	1,393,505	399	291	3.27	1.10
Forest.....	S.O.	1,793	23,191.08	1,914,630	578	276	3.34	1.21
Frankford.....	S.O.	1,323	13,579.00	666,972	354	157	3.20	2.04
Glencoe.....	S.O.	922	6,582.74	365,056	294	104	1.87	1.80
Grand Valley.....	S.O.	591	5,674.29	366,540	222	138	2.13	1.60
Granton.....	S.O.	257	3,369.58	190,764	89	179	3.16	1.77
Hagersville.....	S.O.	1,696	11,776.73	806,590	484	139	2.03	1.46
Harriston.....	S.O.	1,536	14,470.07	1,138,726	436	218	2.77	1.27
Harrow.....	S.O.	1,503	23,689.04	1,743,907	433	336	4.56	1.36

*Does not include summer population.

†7 months' operation.

“D”—Continued

in Ontario Urban Municipalities Served by the Commission
and for Power Service during the year 1950

VILLAGES, AND CERTAIN SUBURBAN AREAS

Commercial light service						Power service			Total number of cus- tomers
Revenue	Consumption	Number of cus- tomers	Monthly consumption per customer	Average monthly bill	Net cost per kilowatt-hour	Revenue	Number of cus- tomers	Average monthly total of power cus- tomers' loads	
\$	kwh		kwh	\$	cents	\$	kw		
3,423.66	177,464	45	329	6.34	1.90	932.13	1	27.2	175
7,880.86	478,645	98	407	6.70	1.60	11,857.46	26	504.7	662
6,167.24	368,635	72	382	7.14	1.70	11,269.04	6	389.2	376
3,702.23	269,701	55	409	5.61	1.40	1,053.64	3	36.3	524
4,223.39	189,073	43	366	8.18	2.23	1,059.92	2	24.2	195
4,781.81	204,468	64	266	6.23	2.30	4,458.36	6	127.4	302
6,860.46	309,543	83	311	6.89	2.22	1,745.02	5	56.8	446
3,499.60	191,330	51	313	5.72	1.80	2,790.81	3	79.1	231
3,534.56	177,140	56	264	5.26	1.99	3,854.39	8	133.8	219
2,549.16	74,935	40	156	5.31	3.40	1,325.74	3	46.9	191
2,487.52	125,488	32	327	6.48	1.98	1,076.39	5	42.3	205
1,714.99	78,241	27	242	5.29	2.19	577.04	1	9.3	166
3,697.85	182,978	56	272	5.50	2.00	1,243.45	3	68.5	277
2,045.31	80,850	29	232	5.88	2.54	1,275.48	3	55.4	157
2,035.85	90,320	19	396	8.93	2.26				109
5,466.63	220,129	60	306	7.59	2.48	7,080.72	16	196.1	567
1,778.08	73,439	33	186	4.49	2.41	1,299.43	3	45.5	222
3,921.33	139,905	51	229	6.39	2.79	2,055.51	6	78.1	253
2,599.94	102,871	38	226	5.70	2.52	1,389.99	2	47.0	157
1,896.27	79,521	33	201	4.79	2.38	1,950.54	2	63.4	106
5,329.66	231,968	80	241	5.55	2.30	3,711.42	8	196.7	327
3,762.87	243,739	65	313	4.82	1.54	4,464.67	10	161.4	324
4,489.46	260,454	66	329	5.67	1.70	3,707.16	10	126.7	306
1,532.90	61,828	22	234	5.81	2.50	3,862.58	3	95.7	122
6,474.39	340,155	73	388	7.39	1.90	9,594.38	8	328.9	488
1,965.68	91,395	39	195	4.20	2.15	2,931.49	4	70.0	195
3,450.45	181,510	26	582	11.06	1.90	4,890.47	4	116.3	294
312.14	6,875	5	115	5.20	4.52				123
3,196.49	118,433	61				544.87	2		297
3,489.75	141,871	37	320	7.86	2.46	2,412.84	5	52.8	176
2,969.40	134,560	52	216	4.76	2.20	1,286.92	2	45.1	202
3,871.68	223,366	49	380	6.58	1.70	1,597.41	6	51.0	454
12,900.04	652,647	136	400	7.90	1.98	7,786.55	22	266.8	736
6,709.93	237,068	68	291	8.22	2.83	1,335.75	7	62.3	429
9,074.34	428,374	93	384	8.13	2.12	3,913.84	11	141.8	398
3,675.35	174,003	63	230	4.86	2.10	3,973.23	11	154.2	296
1,159.92	33,217	28	99	3.45	3.49	209.65	1	7.5	118
10,310.60	625,521	140	372	6.14	1.65	29,116.36	23	1,219.4	647
9,132.29	441,510	116	317	6.56	2.08	12,871.21	15	420.9	567
11,899.79	615,034	111	462	8.93	1.93	7,929.15	8	258.2	552

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Customers
For Domestic Service, for Commercial Light Service

Group IV—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of cus- tomers	Monthly consumption per customer	Average monthly bill	Net cost per kilowatt-hour
			\$	kwh		kwh	\$	cents
Hastings	S.O.	800	8,218.46	442,391	314	117	2.18	1.86
Havelock	S.O.	1,246	10,379.08	541,563	332	136	2.61	1.92
Hensall	S.O.	666	8,016.86	568,110	230	206	2.91	1.41
Highgate	S.O.	355	2,488.82	123,460	115	90	1.80	2.00
Holstein	S.O.	176	1,602.61	91,870	70	109	1.91	1.70
Iroquois	S.O.	1,036	12,206.19	978,557	348	234	2.92	1.20
Jarvis	S.O.	644	4,039.67	241,710	173	116	1.95	1.68
Kemptville	S.O.	1,542	16,468.94	1,142,730	460	207	2.98	1.40
Kirkfield	S.O.	165	1,635.22	61,260	50	102	2.73	2.70
Lakefield	S.O.	1,740	14,992.51	1,180,789	481	205	2.60	1.27
Lambeth	S.O.	867	9,473.34	747,581	261	239	3.02	1.26
Lanark	S.O.	748	5,822.91	286,650	233	103	2.08	2.00
Lancaster	S.O.	534	3,284.50	190,760	137	116	2.00	1.70
Larder Lake Twp.	N.O.P.	1,960	20,301.04	826,906	463	149	3.65	2.46
La Salle	S.O.	1,580	25,498.09	1,449,679	471	256	4.51	1.76
†Latchford	N.O.P.	532	1,504.13	33,509	99	.....	.....	.....
Lucan	S.O.	915	11,163.15	902,442	243	309	3.83	1.24
Lucknow	S.O.	891	8,758.09	631,296	334	157	2.18	1.40
Lynden	S.O.	434	4,803.44	386,993	124	260	3.23	1.24
Madoc	S.O.	1,634	11,507.24	751,100	389	161	2.47	1.53
Markdale	S.O.	966	6,671.06	580,183	257	188	2.16	1.20
Markham	S.O.	1,562	17,085.77	1,279,810	449	238	3.17	1.30
Marmora	S.O.	1,081	7,658.88	393,570	299	110	2.13	1.95
Martintown	S.O.	125	1,929.13	127,880	74	144	2.17	1.50
Maxville	S.O.	754	6,353.54	437,630	205	178	2.58	1.50
Merlin	S.O.	573	3,614.14	215,742	150	120	2.01	1.68
†Merrickville	S.O.	985	4,692.62	209,360	246	.....	.....	.....
Mildmay	S.O.	838	7,153.06	549,992	227	202	2.58	1.30
Millbrook	S.O.	772	8,101.72	449,622	227	165	2.97	1.80
Milverton	S.O.	1,039	11,121.69	805,989	311	216	2.98	1.38
Mitchell	S.O.	1,920	27,566.40	2,038,454	601	283	3.83	1.35
Moorefield	S.O.	264	2,407.75	131,001	85	128	2.36	1.84
Morrisburg	S.O.	*1,913	17,608.55	1,281,969	522	205	2.81	1.40
Mount Brydges	S.O.	633	4,619.20	367,669	211	145	1.82	1.26
Neustadt	S.O.	457	3,394.65	185,039	145	106	1.95	1.80
Newboro	S.O.	276	3,034.23	77,261	77	84	3.28	3.93
Newburgh	S.O.	486	4,655.10	233,625	125	156	3.10	1.99
Newbury	S.O.	284	2,706.68	139,889	91	128	2.49	1.95
Newcastle	S.O.	*851	9,420.77	727,523	278	218	2.82	1.29
New Hamburg	S.O.	1,704	19,538.64	1,539,787	451	285	3.61	1.27

*Does not include summer population.

†7 months' operation.

‡6 months' operation.

"D"—Continued

in Ontario Urban Municipalities Served by the Commission
and for Power Service during the year 1950

VILLAGES, AND CERTAIN SUBURBAN AREAS

Commercial light service						Power service			Total number of customers
Revenue	Consumption	Number of customers	Monthly consumption per customer	Average monthly bill	Net cost per kilowatt-hour	Revenue	Number of customers	Average monthly total of power customers' loads	
\$	kwh		kwh	\$	cents	\$	kw		
5,637.55	215,483	65	276	7.23	2.62	481.44	4	16.4	383
5,549.39	203,064	66	256	7.01	2.73	1,984.11	2	50.8	400
4,120.40	185,670	61	254	5.63	2.22	6,321.62	18	236.4	309
1,278.23	68,080	30	189	3.55	1.88	1,966.14	7	89.7	152
530.88	23,312	17	114	2.60	2.30	740.27	2	19.9	89
4,549.64	297,543	64	387	5.92	1.50	2,116.92	6	62.4	418
3,541.14	208,160	49	354	6.02	1.70	4,058.07	5	116.6	227
8,959.96	480,299	95	421	7.86	1.90	8,910.18	13	277.9	568
1,811.97	50,985	26	163	5.81	3.60				76
10,881.16	686,788	89	643	10.19	1.58	11,847.23	11	455.5	581
1,897.89	111,926	34	274	4.65	1.70	1,421.23	7	56.4	302
4,652.66	197,951	51	323	7.60	2.40	1,383.99	2	40.5	286
2,066.81	105,470	32	275	5.38	2.00				169
7,727.41	518,534	88	491	7.32	1.49	1,545.63	5	33.0	556
6,127.77	236,040	29	678	17.61	2.60	778.79	3	18.5	503
1,006.40	21,414	24				236.81	3		126
4,069.51	215,138	60	299	5.65	1.89	1,194.49	3	46.3	306
5,124.35	237,882	102	194	4.19	2.10	8,667.30	11	245.4	447
981.67	42,622	16	222	5.11	2.30	1,681.18	3	85.6	143
8,270.95	458,613	108	354	6.38	1.80	8,887.02	8	289.0	505
5,444.64	337,627	84	335	5.40	1.60	3,748.00	9	188.4	350
6,578.83	473,589	102	387	5.37	1.40	4,657.54	14	182.1	565
5,085.47	226,960	54	350	7.85	2.24	795.64	2	62.9	355
1,630.93	56,640	26	182	5.23	2.90	53.71	1	3.1	101
4,063.29	175,223	51	286	6.64	2.30				256
3,605.54	165,338	58	238	5.18	2.18	1,943.93	4	66.9	212
2,108.49	160,157	56				2,580.86	11		313
4,355.36	192,188	64	250	5.67	2.30	1,526.13	6	36.9	297
4,109.32	106,145	57	155	6.01	3.87	788.19	3	14.6	287
7,339.64	316,392	82	322	7.46	2.32	7,304.77	14	328.7	407
13,619.49	713,771	135	441	8.41	1.91	16,203.66	25	512.7	761
1,631.87	70,860	35	169	3.89	2.30	1,320.78	1	37.5	121
12,161.40	653,919	152	359	6.67	1.90	8,974.26	30	271.5	704
1,375.08	77,351	49	132	2.34	1.77	1,079.61	6	43.6	266
2,064.12	96,704	32	252	5.37	2.10	1,173.58	3	27.6	180
1,902.80	53,172	18	246	8.81	3.60				95
1,856.94	74,444	25	248	6.19	2.49	954.45	4	24.2	154
1,639.79	77,055	23	279	5.94	2.13	212.78	1	11.7	115
4,659.47	279,520	43	542	9.03	1.67	7,013.01	9	211.3	330
9,833.37	502,200	116	361	7.06	1.96	11,480.16	17	504.4	584

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Customers

For Domestic Service, for Commercial Light Service,

Group IV—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of cus- tomers	Monthly consumption per customer	Average monthly bill	Net cost per kilowatt-hour
			\$	kwh		kwh	\$	cents
Niagara.....	S.O.	1,939	34,868.09	3,489,669	816	356	3.56	1.00
Nipigon Twp.....	T.B.		14,367.26	1,124,215	397	236	3.01	1.27
Norwich.....	S.O.	1,361	15,979.49	1,508,925	446	282	2.99	1.06
Norwood.....	S.O.	911	9,389.17	588,430	270	182	2.90	1.60
Oil Springs.....	S.O.	420	2,884.65	190,368	128	124	1.88	1.52
Omeme.....	S.O.	713	5,953.16	354,620	220	134	2.25	1.68
Orono.....	S.O.	561	8,526.99	455,746	223	170	3.19	1.87
Otterville.....	S.O.	588	5,528.27	503,610	191	220	2.41	1.10
Paisley.....	S.O.	731	7,844.37	454,710	251	151	2.60	1.70
Palmerston.....	S.O.	1,577	18,616.66	1,635,311	461	296	3.37	1.14
Parkhill.....	S.O.	970	12,436.56	883,980	342	215	3.03	1.41
Plattsville.....	S.O.	402	5,500.72	314,978	135	194	3.40	1.75
Point Edward.....	S.O.	1,687	15,160.44	897,058	461	162	2.74	1.69
Port Elgin.....	S.O.	*1,541	24,946.39	1,407,029	650	178	3.19	1.77
Port McNicoll.....	S.O.	*897	7,787.90	377,667	314	100	2.07	2.10
Port Perry.....	S.O.	1,600	19,345.13	1,144,740	478	200	3.37	1.70
Port Rowan.....	S.O.	803	5,210.66	255,410	252	84	1.72	2.05
Port Stanley.....	S.O.	*1,196	27,343.04	2,091,775	1,028	170	2.22	1.31
Priceville.....	S.O.	181	1,477.40	58,273	50	97	2.46	2.50
Princeton.....	S.O.	321	4,207.50	307,931	109	235	3.22	1.37
Queenston.....	S.O.	287	4,984.86	540,095	100	450	4.15	0.90
Red Rock.....	T.B.	1,411	10,338.10	778,740	196	331	4.39	1.30
Richmond.....	S.O.	556	5,382.91	329,430	154	178	2.91	1.63
Ripley.....	S.O.	450	5,593.21	284,487	154	154	3.02	2.00
Rockwood.....	S.O.	653	8,038.81	578,186	215	224	3.10	1.38
Rodney.....	S.O.	885	5,437.65	369,090	301	102	1.51	1.48
Rosseau.....	S.O.	*185	2,311.92	62,270	83	63	2.32	3.70
Russell.....	S.O.	480	5,147.57	242,110	139	145	3.09	2.10
St. Clair Beach.....	S.O.	*425	6,101.52	386,540	158	204	3.22	1.58
St. George.....	S.O.	611	5,025.93	394,911	194	170	2.16	1.27
St. Jacobs.....	S.O.	724	7,199.32	609,710	170	299	3.53	1.18
Schreiber Twp.....	T.B.	1,849	23,371.86	699,650	418	139	4.65	3.30
Shelburne.....	S.O.	1,257	10,858.02	779,410	372	175	2.43	1.40
Smithville.....	S.O.	631	5,460.51	369,510	210	146	2.17	1.50
Southampton.....	S.O.	*1,724	19,819.72	1,388,215	736	157	2.24	1.40
Springfield.....	S.O.	494	3,778.84	202,773	131	129	2.40	1.86
Stayner.....	S.O.	1,252	12,105.79	871,296	372	195	2.71	1.40
Stirling.....	S.O.	1,151	12,824.99	1,221,803	340	299	3.14	1.05
Stoney Creek.....	S.O.	1,703	23,733.61	1,992,667	515	322	3.84	1.19
Stouffville.....	S.O.	1,664	14,884.71	1,575,315	507	259	2.45	0.94

*Does not include summer population.

"D"—Continued

in Ontario Urban Municipalities Served by the Commission
and for Power Service during the year 1950

VILLAGES, AND CERTAIN SUBURBAN AREAS

Commercial light service						Power service			Total number of customers
Revenue	Consumption	Number of customers	Monthly consumption per customer	Average monthly bill	Net cost per kilowatt-hour	Revenue	Number of customers	Average monthly total of power customers' loads	
\$	kwh		kwh	\$	cents	\$	kw		
10,469.63	730,566	112	544	7.79	1.43	2,952.61	14	119.0	942
14,825.69	1,049,592	100	874	12.35	1.40	1,874.06	5	87.2	502
8,322.69	494,370	101	408	6.87	1.68	2,729.30	10	137.0	557
5,250.93	203,710	78	218	5.61	2.58	2,892.26	5	103.0	353
1,744.40	81,679	40	170	3.63	2.14	5,640.66	33	128.9	201
2,948.81	119,257	39	255	6.30	2.47	3,299.37	8	130.9	267
3,140.59	107,199	48	186	5.45	2.93	159.82	3	7.5	274
3,277.56	162,920	62	219	4.41	2.01	664.53	11	36.5	264
4,967.15	208,960	64	272	6.41	2.40	2,370.02	6	84.8	321
9,463.73	523,369	107	408	7.37	1.81	10,561.37	22	513.9	590
7,348.67	327,570	93	294	6.58	2.24	5,709.60	12	156.0	447
3,260.91	150,318	28	447	9.71	2.17	4,272.94	2	135.6	163
5,512.80	221,214	63	293	7.29	2.49	86,959.15	13	2,311.8	537
13,007.90	564,115	148	318	7.43	2.34	6,248.64	12	216.6	810
2,171.51	87,769	25	293	7.24	2.50	538.18	1	12.7	340
8,831.65	354,472	104	284	7.08	2.50	3,710.38	11	123.8	593
5,341.33	290,251	72	336	6.18	1.84	295.12	3	26.7	327
9,749.90	564,314	126	373	6.45	1.73	19,438.67	16	688.6	1,170
974.30	38,312	13	245	6.24	2.50	.....	.....	.....	63
1,458.95	63,830	25	213	4.86	2.28	1,848.20	4	90.9	138
2,853.29	183,044	19	803	12.51	1.60	.....	.....	.....	119
8,363.87	481,341	19	2,111	36.68	1.70	645.31	2	20.9	217
2,174.72	95,380	29	274	6.25	2.30	.....	.....	.....	183
2,886.65	84,512	55	128	4.37	3.40	2,251.07	2	60.3	211
2,800.59	140,150	38	307	6.14	2.00	72.16	2	2.9	255
4,008.71	198,541	77	215	4.34	2.02	3,324.91	8	129.6	386
2,484.39	73,070	17	358	12.18	3.40	.....	.....	.....	100
3,347.60	114,579	39	245	7.15	2.90	250.47	1	5.8	179
2,797.74	128,870	13	826	17.93	2.17	248.28	1	7.5	172
3,642.74	221,408	45	410	6.75	1.65	3,902.68	4	125.3	243
3,176.93	161,215	39	344	6.79	1.97	4,666.54	8	216.9	217
12,083.22	370,850	54	572	18.64	3.20	3,380.49	3	85.4	475
6,916.91	397,410	98	338	5.88	1.70	4,477.19	13	199.7	483
4,384.32	212,217	67	264	5.45	2.10	12,178.30	10	434.4	287
9,367.64	393,254	91	295	7.03	2.40	13,654.09	14	437.6	841
1,517.84	68,330	32	178	3.95	2.22	1,680.69	4	51.2	167
6,502.41	327,946	101	271	5.37	2.00	4,422.69	19	193.4	492
5,607.38	308,836	85	303	5.50	1.82	2,912.71	15	143.5	440
9,616.49	486,001	89	455	9.00	1.98	4,046.05	10	130.9	614
8,486.56	557,829	112	415	6.31	1.50	7,344.29	10	298.8	629

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Customers
For Domestic Service, for Commercial Light Service,

Group IV—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of cus- tomers	Monthly consumption per customer	Average monthly bill	Net cost per kilowatt-hour
			\$	kwh		kwh	\$	cents
Streetsville.....	S.O.	1,020	13,111.75	1,049,324	286	306	3.82	1.20
Sunderland.....	S.O.	492	5,589.04	341,833	182	157	2.56	1.60
Sutton.....	S.O.	*1,208	14,868.88	994,494	576	144	2.15	1.50
Tara.....	S.O.	477	5,250.60	327,830	181	151	2.41	1.60
Tavistock.....	S.O.	1,057	12,891.40	1,261,530	337	312	3.19	1.02
Teeswater.....	S.O.	870	7,569.21	500,535	264	158	2.39	1.50
Terrace Bay.....	T.B.	1,270	22,501.47	2,170,100	252	717	7.44	1.03
Thamesford.....	S.O.	539	8,332.15	650,929	173	314	4.01	1.28
Thamesville.....	S.O.	913	6,064.56	427,036	299	119	1.69	1.42
Thedford.....	S.O.	600	5,852.01	330,761	193	143	2.53	1.77
Thornbury.....	S.O.	975	9,721.63	567,990	330	143	2.46	1.70
Thorndale.....	S.O.	263	3,917.59	229,487	92	208	3.55	1.71
Thornton.....	S.O.	183	1,941.32	77,480	74	87	2.19	2.50
Tottenham.....	S.O.	594	6,563.29	423,535	191	185	2.86	1.50
Trafalgar Twp.....	S.O.	.....	59,263.70	3,505,220	1,023	286	4.83	1.70
Tweed.....	S.O.	1,659	14,525.62	959,768	408	196	2.97	1.51
Uxbridge.....	S.O.	1,734	19,410.92	1,356,956	543	208	2.98	1.40
Victoria Harbour.....	S.O.	*969	6,743.26	360,820	336	89	1.68	1.90
Wardsville.....	S.O.	365	3,558.20	261,230	87	250	3.41	1.36
Warkworth.....	S.O.	522	4,758.45	265,460	161	137	2.46	1.79
Waterdown.....	S.O.	1,306	16,364.43	1,409,040	361	325	3.78	1.16
Waterford.....	S.O.	1,677	13,685.51	1,098,436	515	178	2.21	1.24
Watford.....	S.O.	1,131	13,909.97	1,000,294	350	238	3.31	1.39
Waubashene.....	S.O.	.....	6,137.74	371,090	301	103	1.70	1.70
Wellesley.....	S.O.	560	5,412.74	352,830	159	185	2.84	1.54
Wellington.....	S.O.	*998	10,013.30	783,706	390	167	2.14	1.28
West Lorne.....	S.O.	995	7,774.65	566,334	288	164	2.25	1.37
Westport.....	S.O.	720	6,494.15	379,860	182	174	2.97	1.70
Wheatley.....	S.O.	1,003	8,321.97	567,310	297	159	2.34	1.47
Warton.....	S.O.	1,983	14,432.35	1,083,480	542	167	2.22	1.31
Williamsburg.....	S.O.	300	2,417.10	256,543	95	225	2.12	0.94
Winchester.....	S.O.	1,152	11,305.92	971,904	351	231	2.68	1.20
Windermere.....	S.O.	*135	3,238.88	111,250	85	109	3.18	2.90
Woodbridge.....	S.O.	1,592	17,097.33	1,590,779	409	324	3.48	1.10
Woodville.....	S.O.	375	3,734.15	215,324	133	135	2.34	1.70
Wyoming.....	S.O.	648	4,601.19	277,250	202	114	1.90	1.67
Zurich.....	S.O.	572	6,689.56	370,715	191	162	2.92	1.80

*Does not include summer population.

"D"—Concluded

in Ontario Urban Municipalities Served by the Commission
and for Power Service during the year 1950

VILLAGES, AND CERTAIN SUBURBAN AREAS

Commercial light service						Power service			Total number of cus-tomers
Revenue	Consumption	Number of cus-tomers	Monthly consumption per customer	Average monthly bill	Net cost per kilowatt-hour	Revenue	Number of cus-tomers	Average monthly total of power cus-tomers' loads	
\$	kwh		kwh	\$	cents	\$	kw		
5,354.71	388,385	60	539	7.44	1.40	16,074.02	13	546.7	359
3,067.43	129,280	43	251	5.94	2.40	3,089.72	2	78.0	227
10,927.06	520,132	131	331	6.95	2.10	3,718.32	10	118.9	717
2,876.35	145,840	46	264	5.21	2.00	2,053.64	8	61.9	235
6,649.92	372,994	103	302	5.38	1.78	9,078.48	10	349.3	450
4,144.02	201,203	64	262	5.40	2.10	5,917.01	12	193.9	340
9,128.00	478,050	22	181	3.45	1.90	7,010.30	1	238.7	275
3,433.85	190,626	45	353	6.36	1.80	2,270.05	5	96.4	223
5,197.22	322,035	93	289	4.66	1.61	5,025.92	10	192.4	402
4,740.03	321,764	63	426	6.27	1.47	2,889.29	5	78.3	261
4,954.06	206,840	80	216	5.16	2.40	4,143.01	14	205.2	424
1,338.32	45,003	20	188	5.58	2.97	2,752.65	3	72.4	115
734.42	33,520	13	215	4.71	2.20	249.38	2	14.0	89
2,736.02	98,681	51	161	4.47	2.80	2,087.34	9	62.6	251
8,801.74	363,755	69	439	10.63	2.40	7,810.19	17	216.3	1,109
9,266.87	378,738	110	287	7.02	2.45	11,909.77	21	314.6	539
8,323.39	332,135	119	233	5.83	2.50	7,075.57	16	235.6	678
1,811.59	96,370	35	230	4.32	1.90	306.07	1	8.2	372
2,591.97	123,660	23	448	9.39	2.10	41.24	1	2.2	111
2,340.87	95,749	48	166	4.06	2.44	676.14	2	13.8	211
4,678.64	267,452	53	421	7.36	1.75	2,246.50	10	104.7	424
5,750.11	406,495	86	394	5.57	1.41	6,287.71	14	277.2	615
8,187.19	406,940	87	390	7.84	2.01	7,979.25	9	245.4	446
1,770.44	83,560	31	225	4.76	2.10	1,059.07	3	22.8	335
3,342.82	180,070	54	278	5.16	1.86	1,505.80	7	52.9	220
4,215.36	215,895	77	234	4.56	1.95	5,027.11	11	205.3	478
6,357.28	354,734	77	384	6.88	1.79	16,499.83	14	502.3	379
5,525.78	209,300	64	273	7.20	2.60				246
8,866.86	460,160	89	431	8.30	1.93	7,082.50	13	265.9	399
12,563.23	704,545	128	460	8.18	1.80	14,895.34	22	369.0	692
2,339.93	163,245	37	368	5.27	1.40	224.51	1	5.5	133
8,904.51	523,640	94	464	7.89	1.70	6,641.16	4	224.8	449
1,900.22	74,860	14	446	11.31	2.50	1,198.04	2	35.6	101
7,301.76	418,336	73	478	8.34	1.70	31,251.88	10	1,183.0	492
1,689.86	58,859	34	144	4.14	2.90	650.46	2	28.5	169
2,377.14	122,210	52	196	3.81	1.94	1,190.88	4	33.9	258
5,034.35	212,730	51	348	8.23	2.36	386.83	2	19.4	244

APPENDIX I

OPERATION OF THE SYSTEMS

Summary Tabulations and Statements—Dependable Peak Capacity and Actual Station Output—Loads of Municipal Systems

THE tables presented in this appendix are modifications of some that appeared in previous issues of the Report in the preface and in Section I. They have been assembled here for convenient reference and in order to permit the narrative in Section I to be presented with less interruption.

The first set of four tables presents a concise comparison of the resources, demands, and loads of the fiscal period under review with those of 1949.

The next table provides details of the capacity and output of the Commission's generating stations and its sources of purchased power. The capacities listed are defined as "dependable 20-minute peak" capacities and differ slightly in some cases from "maximum normal plant" capacities which have been published in previous issues of the Report. A definition of dependable capacity is placed at the end of the table. It makes clear that the decision to alter the expression of capacity was based on the fact that the most significant information about resources should be related to the time of maximum demand which, for the Commission, usually occurs during December.

In conformance with modern engineering practice, statistics of loads and capacities in these tables, and elsewhere in the Report, have been expressed in kilowatts rather than horsepower. For purposes of making comparisons with earlier issues of the Report or with other publications still employing the horsepower unit, the following approximate equation may be used:

$$1 \text{ horsepower} = .746 \text{ kilowatt}$$

The final table in the appendix, entitled Loads of Municipal Systems 1950, has been modified somewhat by inclusion of data relating to energy consumption. Previously, comparisons were made between peak loads of adjacent years.

SUMMARY TABULATIONS

RESOURCES, GENERATED AND PURCHASED
DECEMBER 1949 AND 1950

	Dependable peak capacity		
	1949 kw	1950 kw	Increase kw
SOUTHERN ONTARIO SYSTEM			
Commission's generating stations.....	1,041,000	1,416,900	375,900
Power purchased.....	794,000	764,100	29,900*
Total resources.....	1,835,000	2,181,000	346,000
THUNDER BAY SYSTEM			
Commission's generating stations.....	172,000	232,000	60,000
Power purchased.....		600	600
Total resources.....	172,000	232,600	60,600
NORTHERN ONTARIO PROPERTIES			
Commission's generating stations.....	275,200	316,700	41,500
Power purchased.....			
Total resources.....	275,200	316,700	41,500

PRIMARY LOADS CARRIED AND DEMANDS FOR PRIMARY POWER
DECEMBER 1949 AND 1950

	At the time of the December potential primary peak demand		
	1949 kw	1950 kw	Increase kw
SOUTHERN ONTARIO SYSTEM			
Primary load carried.....	1,773,685	2,147,764	374,079
Primary load cut.....	213,350	213,100	250*
Primary demand.....	1,987,035	2,360,864	373,829
Estimated effect of restrictions, voluntary curtailment, and allocations in the supply of power to municipal and rural customers.....	112,965	.....	112,965*
Potential primary peak demand.....	2,100,000	2,360,864	260,864
THUNDER BAY SYSTEM (incl. Rainy River District)			
Primary load carried.....	166,978	179,710	12,732
Primary load cut.....			
Primary demand.....	166,978	179,710	12,732
NORTHERN ONTARIO PROPERTIES (excl. Rainy River District)			
Primary load carried.....	218,217	258,411	40,194
Primary load cut.....			
Primary demand.....	218,217	258,411	40,194
Estimated effect of restrictions, voluntary curtailment, and allocations in the supply of power to municipal and rural customers.....	4,483	.....	4,483*
Potential primary peak demand.....	222,700	258,411	35,711

*Decrease.

AND STATEMENTS

ENERGY (kilowatt-hours) UTILIZED

FISCAL YEARS 1949 (12 months) AND 1950 (14 months)

	1949	1950	Increase calendar year 1950 over 1949
SOUTHERN ONTARIO SYSTEM	kwh	kwh	per cent
Primary.....	11,047,332,765	14,487,261,370	12.8
Secondary.....	332,957,800	301,171,900	8.2*
Total primary and secondary...	11,380,290,565	14,788,433,270	12.2
THUNDER BAY SYSTEM (incl. Rainy River District)			
Primary.....	1,030,627,670	1,357,313,640	9.3
Secondary.....	85,105,200	185,600,000	84.7
Total primary and secondary...	1,115,732,870	1,542,913,640	15.2
NORTHERN ONTARIO PROPERTIES (excl. Rainy River District)			
Primary.....	1,438,706,926	1,797,639,933	6.5
Secondary.....	98,219,629	129,613,367	36.7
Total primary and secondary...	1,536,926,555	1,927,253,300	8.3

ENERGY SUPPLIED TO COMMISSION'S CUSTOMERS

FISCAL YEARS 1949 (12 months) AND 1950 (14 months)

	1949	1950	Increase calendar year 1950 over 1949
SOUTHERN ONTARIO SYSTEM	kwh	kwh	per cent
Primary			
Municipalities.....	5,821,077,117	8,039,407,352	15.3
Industries.....	3,310,252,874	3,830,000,126	6.4
Rural power district.....	724,615,465	1,040,443,537	18.9
Total.....	9,855,945,456	12,909,851,015	12.7
Secondary.....	324,263,358	293,263,817	8.2*
Total primary and secondary...	10,180,208,814	13,203,114,832	12.1
THUNDER BAY SYSTEM (incl. Rainy River District)			
Primary			
Municipalities.....	225,929,965	314,665,009	12.6
Industries.....	717,163,741	934,530,700	7.2
Rural power district.....	6,983,290	11,872,974	40.6
Total.....	950,076,996	1,261,068,683	8.7
Secondary.....	77,882,486	169,827,062	84.5
Total primary and secondary...	1,027,959,482	1,430,895,745	14.6
NORTHERN ONTARIO PROPERTIES (excl. Rainy River District)			
Primary			
Municipalities.....	161,884,339	217,536,652	11.0
Industries.....	1,094,146,440	1,347,909,812	5.8
Rural power district.....	22,886,177	40,023,028	42.0
Total.....	1,278,916,956	1,605,469,492	7.2
Secondary.....	96,761,479	103,243,651	9.7
Total primary and secondary...	1,375,678,435	1,708,713,143	7.3

*Decrease.

**DEPENDABLE PEAK CAPACITY AND ACTUAL
TOTAL ENERGY OUTPUT
COMMISSION-OWNED OR -OPERATED GENERATING STATIONS**

Generating station—river	Dependable 20-min. peak capacity December 1950	Actual 20-min. peak output December 1950	Total energy output during fiscal year ended December 31, 1950 (14 months)
	kilowatts	kilowatts	kilowatt-hours
SOUTHERN ONTARIO SYSTEM			
HYDRO-ELECTRIC			
Sir Adam Beck-Niagara G.S. No. 1—Niagara.....	*320,000	357,500	3,125,057,000
Ontario Power—Niagara.....	*135,000	137,000	1,360,897,100
Toronto Power—Niagara.....	*105,000	108,000	1,059,157,900
DeCew Falls—Welland Canal.....	*122,000	126,000	774,517,400
DeCew Falls (60 & 66½ cycle)—Welland Canal...	28,000	39,000	198,191,300
Des Joachims—Ottawa.....	350,000	325,000	702,144,500
Chenau—Ottawa.....	30,000	32,000	24,590,400
Chats Falls (Ontario half)—Ottawa.....	*85,000	86,000	491,688,600
Barrett Chute—Madawaska.....	42,000	41,250	247,282,800
Calabogie—Madawaska.....	4,400	4,650	29,334,050
Stewartville—Madawaska.....	63,000	69,500	285,047,000
Heely Falls—Trent.....	11,150	12,075	83,894,720
Seymour—Trent.....	2,950	3,175	20,911,200
Ranney Falls—Trent.....	8,350	8,615	61,556,960
Hagues Reach—Trent.....	3,250	3,900	25,697,440
Meyersburg—Trent.....	5,100	5,850	39,525,580
Sills Island—Trent.....	1,550	885	10,175,040
Frankford—Trent.....	2,550	2,925	17,179,200
Sidney—Trent.....	3,350	3,725	22,336,500
Bala No. 1 & 2—Muskoka.....	350	360	2,448,750
Ragged Rapids—Muskoka.....	7,500	7,800	42,850,990
Big Eddy—Muskoka.....	7,100	7,950	40,521,100
Trethewey Falls—South Muskoka.....	1,600	1,700	11,599,200
Hanna Chute—South Muskoka.....	1,200	1,300	8,700,600
South Falls—South Muskoka.....	4,200	4,450	28,411,695
Eugenia Falls—Beaver.....	5,400	5,260	28,395,400
Wasdells Falls—Severn.....	750	770	3,859,340
Big Chute—Severn.....	4,300	4,440	32,445,720
Fennelon Falls—Otonabee.....	700	700	5,476,265
Lakefield—Otonabee.....	1,650	1,920	10,095,140
Auburn—Otonabee.....	1,750	2,085	13,228,350
High Falls—Mississippi.....	2,450	2,650	15,373,440
Carleton Place—Mississippi.....			99,020
Galetta—Mississippi.....	800	935	3,321,000
†Merrickville—Rideau.....	900	890	4,632,200
Hanover—Saugeen.....	250	295	1,627,776
Walkerton—Saugeen.....	350	360	2,445,600
†Burks Falls—Magnetawan.....			
FUEL-ELECTRIC			
Scarborough (steam)—Toronto.....	20,000	26,100	41,933,000
Ontario Paper (steam) (60 & 66½ cycle)—Thorold	15,000	20,200	20,653,120
Hamilton Beach (steam)—Hamilton.....	10,000	12,400	21,401,970
Steel Co. of Canada (steam)—Hamilton.....	*6,000	5,500	24,340,700
Westinghouse (diesel) (66½ cycle)—Hamilton.....	2,000	1,500	1,347,000
Canada & Dominion Sugar Co. (steam)—Chatham*			4,431,000
Southern Ontario System total.....	1,416,900	†	8,948,823,066
THUNDER BAY SYSTEM—HYDRO-ELECTRIC			
Cameron Falls—Nipigon.....	55,000	57,000	504,420,600
Alexander—Nipigon.....	53,000	54,500	388,432,600
Pine Portage—Nipigon.....	60,000	61,500	142,784,930
Aguasabon—Aguasabon.....	40,000	45,000	321,156,330
Kakabeka—Kaministiquia.....	24,000	25,500	183,960,900
Thunder Bay System total.....	232,000	†	1,540,755,360

*25-cycle stations, others are 60-cycle, except as indicated.

†Acquired 1950.

‡Because the maximum 20-minute peak outputs of the various generating stations and purchased power sources in a system do not occur coincidentally, the sum of the power outputs should not be construed as representative of the peak load of that system.

STATION OUTPUT IN DECEMBER 1950 AND
DURING 1950 FISCAL YEAR

COMMISSION-OWNED OR -OPERATED GENERATING STATIONS—Continued

Generating station—river

	Dependable 20-min. peak capacity December 1950	Actual 20 min. peak output December 1950	Total energy output during fiscal year ended December 31, 1950 (14 months)
	kilowatts	kilowatts	kilowatt-hours
NORTHERN ONTARIO PROPERTIES			
HYDRO-ELECTRIC			
Abitibi Canyon—Abitibi	*184,000	181,000	1,234,313,000
George W. Rayner—Mississagi	42,000	46,500	82,635,880
Ear Falls—English	19,200	21,250	157,594,000
Wawaitein—Mattagami	*9,200	9,100	32,928,296
Sandy Falls—Mattagami	*3,200	2,850	21,685,416
Lower Sturgeon—Mattagami	*6,000	5,900	46,536,201
Indian Chute—Montreal	2,800	2,980	18,096,000
Hound Chute—Montreal	3,600	3,720	23,166,728
Fountain Falls—Montreal	2,000	1,820	16,717,800
Upper Notch—Montreal	8,300	7,900	48,125,000
Stinson—Wanapitei	5,500	5,100	25,521,000
Coniston—Wanapitei	4,200	4,180	27,372,800
McVittie—Wanapitei	2,300	1,200	15,783,120
Matabitchuan—Matabitchuan	9,000	8,000	46,965,680
Crystal Falls—Sturgeon	8,000	4,300	40,085,400
Nipissing—South	1,500	1,630	10,731,340
Bingham Chute—South	900	930	6,164,020
Elliott Chute—South	1,300	1,390	6,536,200
Rat Rapids—Albany	2,500	2,400	21,021,600
Kagawong—Kagawong	700	750	3,535,220
FUEL-ELECTRIC			
Kagawong (diesel portion)	500	490	1,223,400
Otto Holden Construction (steam) to March 1950			2,204,526
Northern Ontario Properties total	316,700	‡	1,888,942,627
Total of Commission-owned or -operated generating stations	1,965,600	‡	12,378,521,053

POWER PURCHASED

Power sources			
SOUTHERN ONTARIO SYSTEM			
Canadian Niagara Power Co	*15,000	17,000	184,245,000
Polymer Corporation	22,000	22,000	61,845,200
Gatineau Power Co. (25 & 60 cycle)	254,000	289,800	1,752,680,100
Ottawa Valley Power Co.	*85,000	86,000	495,779,600
Beauharnois Light, Heat & Power Co.	*248,000	255,000	2,301,970,000
MacLaren-Quebec Power Co. (25 & 60 cycle)	138,000	168,800	996,482,000
Miscellaneous (relatively small suppliers) (25 & 60 cycle)	2,100	14,459	43,241,804
THUNDER BAY SYSTEM			
Ontario-Minnesota Pulp & Paper Co.	600	710	2,158,280
NORTHERN ONTARIO PROPERTIES			
Abitibi Power & Paper Co. (25 & 60 cycle)			19,484,853
Miscellaneous (relatively small suppliers)		246	22,192,320
Total purchased	764,700	‡	5,880,079,157
Total generated and purchased	2,730,300	‡	18,258,600,210

The dependable peak capacity of a source of generation is the amount of power, subject to periodic change as equipment and water conditions vary, which the source is expected to be able to supply at the time of the system's primary peak demand. For Commission-owned or -operated generating stations, it is presumed that all units are available and that the supply of water is normal. Contractual stipulations govern the capacities of sources of purchased power.

LOADS OF MUNICIPAL SYSTEMS 1950

Municipality	Date of first delivery	Fre-quency Decem-ber 31, 1950	December 1950 peak load	Consump-tion fiscal year (14 months)	Increase (or decrease) in consump-tion, calendar year 1950 over 1949
		cycles	kilowatts	'000 kwh	percentage

SOUTHERN ONTARIO SYSTEM

Acton.....	Jan. 1913	25	2,644.8	11,504	23.7
Agincourt.....	Nov. 1922	60	604.4	3,124	36.3
Ailsa Craig.....	Jan. 1916	25	177.7	739	11.7
Alexandria.....	Jan. 1921	60	563.3	2,780	19.0
Alliston.....	June 1918	60	790.8	3,763	16.9
Almonte.....	Feb. 1945	60	529.9	2,005	53.8
Alvinston.....	April 1922	25*	187.8	656	13.0
Amherstburg.....	Feb. 1919	25	1,723.0	9,176	12.9
Ancaster Twp.—V.A.....	Jan. 1914	25	757.0	3,292	24.1
Apple Hill.....	April 1921	60	50.8	215	6.2
Arkona.....	Dec. 1926	25*	139.7	511	18.1
Arnprior.....	June 1929	60	1,807.5	8,845	12.3
Arthur.....	Dec. 1916	60	299.9	1,507	9.4
Athens.....	Jan. 1929	60	189.0	644	4.5
Aurora.....	Dec. 1920	60	1,889.5	10,355	18.5
Aylmer.....	Mar. 1918	25	1,877.0	8,181	13.5
Ayr.....	Jan. 1915	25	360.7	1,402	8.5
Baden.....	May 1912	25	720.3	3,010	15.9
Bala.....	April 1929	60	141.4	1,083	4.3
Bancroft.....	Mar. 1950	60	72.2	.....	.....
Barrie.....	April 1913	60	6,740.0	33,691	20.8
Barry's Bay.....	Jan. 1950	60	107.1	.....	.....
Bath.....	Nov. 1931	60	103.0	354	16.5
Beachville.....	Aug. 1912	25	858.7	5,122	24.8
Beamsville.....	Jan. 1930	25	780.0	4,062	10.1
Beaverton.....	Nov. 1914	60	407.3	1,917	24.4
Beeton.....	Aug. 1918	60	181.1	797	12.8
Belle River.....	Dec. 1922	25	379.7	1,736	12.1
Belleville.....	Mar. 1916	60	9,858.2	58,245	13.2
Blenheim.....	Nov. 1915	25	962.8	4,087	19.3
Bloomfield.....	April 1919	60	197.6	908	17.6
Blyth.....	July 1924	25*	325.0	1,510	13.8
Bobcaygeon.....	July 1946	60	264.7	999	14.7
Bolton.....	Feb. 1915	25*	337.0	1,230	26.1
Bothwell.....	Sept. 1915	25	205.0	960	17.2
Bowmanville.....	Mar. 1916	60	3,856.5	20,016	11.7
Bradford.....	Oct. 1918	60	617.0	3,022	13.4
Braeside.....	June 1929	60	280.7	681	14.5
Brampton.....	Nov. 1911	25	4,228.0	21,514	16.8
Brantford.....	Feb. 1914	25	25,271.1	134,677	10.1
Brantford Twp.—V.A.....	Oct. 1915	25	3,946.6	17,770	22.5
Brechin.....	Jan. 1915	60	83.0	263	13.8
Bridgeport.....	Mar. 1928	25	352.1	1,560	27.3
Brigden.....	Jan. 1918	60	153.9	513	2.4
Brigton.....	Mar. 1916	60	742.8	3,762	10.1

*Changed from 25 to 60 cycles in period ending May 31, 1951.

LOADS OF MUNICIPAL SYSTEMS 1950

Municipality	Date of first delivery	Fre- quency Decem- ber 31, 1950	December 1950 peak load	Consump- tion fiscal year (14 months)	Increase (or decrease) in consump- tion, calendar year 1950 over 1949
		cycles	kilowatts	'000 kwh	percentage

SOUTHERN ONTARIO SYSTEM—Continued

Brockville.....	April 1915	60	7,734.2	40,781	7.2
Bronte.....	Jan. 1930	66 $\frac{2}{3}$ †	350.0	1,283	18.5
Brussels.....	July 1924	25*	326.7	1,541	8.9
Burford.....	June 1915	25	415.7	1,770	9.0
Burgessville.....	Nov. 1916	25	98.8	340	12.8
Burks Falls.....	Jan. 1950	60	188.9		
Burlington.....	Jan. 1930	66 $\frac{2}{3}$ †	2,969.1	13,603	23.6
Burlington Beach.....	Jan. 1930	25 & 66 $\frac{2}{3}$ †	839.6	3,424	18.9
Caledonia.....	Oct. 1912	25	544.4	2,460	10.5
Campbellville.....	Jan. 1925	25	88.9	309	8.8
Cannington.....	Nov. 1914	60	320.5	1,341	12.9
Cardinal.....	July 1930	60	444.2	2,033	23.9
Carleton Place.....	May 1919	60	2,176.5	11,649	9.5
Cayuga.....	Nov. 1924	25	249.4	1,107	10.7
Chatham.....	Feb. 1915	25	10,485.1	56,878	14.7
Chatsworth.....	Dec. 1915	60	196.2	660	12.2
Chesley.....	July 1916	60	903.8	3,595	17.0
Chesterville.....	April 1914	60	587.8	2,644	0.6
Chippawa.....	Sept. 1919	25	505.0	2,556	12.7
Clifford.....	May 1924	25	194.2	860	18.5
Clinton.....	Mar. 1914	25	1,174.2	6,180	12.4
Cobden.....	Dec. 1934	60	260.2	1,052	10.7
Cobourg.....	Mar. 1916	60	3,586.5	19,258	29.1
Colborne.....	Mar. 1916	60	410.2	1,984	15.8
Coldwater.....	Mar. 1913	60	186.6	1,197	29.6
Collingwood.....	Mar. 1913	60	3,327.9	15,221	13.2
Comber.....	May 1915	25	181.0	768	25.2
Cookstown.....	May 1918	60	133.5	568	13.8
Cottam.....	Feb. 1919	25	139.0	616	2.1
Courtright.....	Dec. 1923	60	91.5	335	2.5
Creemore.....	Nov. 1914	60	214.2	971	10.3
Dashwood.....	Sept. 1917	25	141.4	595	6.2
Delaware.....	Mar. 1915	25	151.2	552	7.9
Delhi.....	May 1938	25	1,145.8	4,502	21.3
Deseronto.....	Mar. 1916	60	444.2	2,213	21.0
Dorchester.....	Dec. 1914	25	195.0	753	17.3
Drayton.....	Mar. 1918	25	209.5	758	13.6
Dresden.....	April 1915	25	636.2	3,104	8.3
Drumbo.....	Dec. 1914	25	151.0	587	12.6
Dublin.....	Oct. 1917	25	91.8	453	12.9
Dundalk.....	Dec. 1915	60	352.9	1,230	10.6
Dundas.....	Jan. 1911	25	4,009.1	15,193	11.1
Dunnville.....	June 1918	25	2,036.0	8,877	19.0
Durham.....	Dec. 1915	60	572.2	2,898	12.5
Dutton.....	Sept. 1915	25	271.2	1,376	3.7

†Changed from 66 $\frac{2}{3}$ to 60 cycles in period ending May 31, 1951.

*Changed from 25 to 60 cycles in period ending May 31, 1951.

‡Part served at 66 $\frac{2}{3}$ cycles changed to 60 cycles in period ending May 31, 1951.

LOADS OF MUNICIPAL SYSTEMS 1950

Municipality	Date of first delivery	Frequency December 31, 1950	December 1950 peak load	Consumption fiscal year (14 months)	Increase (or decrease) in consumption, calendar year 1950 over 1949
		cycles	kilowatts	'000 kwh	percentage

SOUTHERN ONTARIO SYSTEM—Continued

East York Twp.—V.A....	Dec. 1923	60	21,006.1	95,037	27.6
Elmira.....	Nov. 1913	25	1,884.2	9,689	15.6
Elmvale.....	June 1913	60	302.2	1,415	11.2
Elmwood.....	April 1918	60	149.0	442	39.2
Elora.....	Nov. 1914	25	651.1	2,601	13.0
Embro.....	Jan. 1915	25	224.4	836	11.6
Erieau.....	July 1924	25	187.8	1,090	6.9
Erie Beach.....	July 1925	25	20.7	111	5.0
Erin.....	Jan. 1945	60	150.0	560	0.0
Essex.....	Feb. 1919	25	998.3	4,557	12.8
Etobicoke Twp.—V.A....	Aug. 1917	25	24,346.0	117,461	30.2
Exeter.....	June 1916	25*	1,192.0	5,943	12.4
Fergus.....	Nov. 1914	25	1,944.0	8,945	14.7
Finch.....	Feb. 1928	60	131.8	678	5.9
Flesherton.....	Dec. 1915	60	149.9	604	16.6
Fonthill.....	June 1926	25	551.8	2,316	25.3
Forest.....	Mar. 1917	25*	737.0	3,848	13.8
Forest Hill.....	Jan. 1938	25	8,915.1	42,977	9.2
Frankford.....	Oct. 1937	60	316.0	1,312	36.4
Galt.....	May 1911	25	13,732.5	59,930	11.4
Georgetown.....	Sept. 1913	25	2,618.0	13,683	18.7
Glencoe.....	Aug. 1920	25*	288.5	1,354	15.5
Goderich.....	Feb. 1914	25	2,325.5	12,316	8.9
Grand Valley.....	Dec. 1916	60	267.9	1,177	18.1
Granton.....	July 1916	25	76.6	303	0.5
Gravenhurst.....	Nov. 1915	60	1,658.6	9,352	13.1
Grimsby.....	Jan. 1930	25	1,182.6	6,717	6.2
Guelph.....	Dec. 1910	25	15,805.0	79,302	19.1
Hagersville.....	Sept. 1913	25	977.7	4,421	12.9
Hamilton.....	Feb. 1911	25,60&66½	169,193.2	1,076,703	11.7
Hanover.....	Sept. 1916	60	2,114.4	8,991	12.4
Harriston.....	July 1916	25	632.3	3,338	9.7
Harrow.....	Feb. 1919	25	848.2	3,487	14.4
Hastings.....	June 1931	60	204.6	1,000	2.7
Havelock.....	Feb. 1921	60	285.2	1,238	5.5
Hensall.....	Jan. 1917	25*	342.2	1,472	7.6
Hepworth.....	April 1930	60	73.3	269	9.5
Hespeler.....	Feb. 1911	25	3,644.5	19,715	21.4
Highgate.....	Dec. 1916	25	114.1	406	5.7
Holstein.....	May 1916	60	40.0	155	5.7
Humberstone.....	Oct. 1924	25	818.7	3,900	8.9
Huntsville.....	Sept. 1916	60	1,686.0	10,549	4.0
Ingersoll.....	May 1911	25	4,038.1	18,828	11.4
Iroquois.....	Feb. 1940	60	409.0	2,094	12.3
Jarvis.....	Feb. 1924	25	231.9	1,052	6.1

*Changed from 25 to 60 cycles in period ending May 31, 1951.

LOADS OF MUNICIPAL SYSTEMS 1950

Municipality	Date of first delivery	Fre- quency Decem- ber 31, 1950	December 1950 peak load	Consump- tion fiscal year (14 months)	Increase (or decrease) in consump- tion, calendar year 1950 over 1949
		cycles	kilowatts	'000 kwh	percentage

SOUTHERN ONTARIO SYSTEM—Continued

Kemptville.....	Dec. 1921	60	733.4	3,178	28.4
Kincardine.....	Mar. 1921	60	1,126.2	5,978	14.1
Kingston.....	Dec. 1917	60	19,915.4	116,636	3.9
Kingsville.....	Feb. 1919	25	1,100.9	4,544	17.8
Kirkfield.....	June 1920	60	47.4	161	9.5
Kitchener.....	Jan. 1911	25	33,656.0	177,854	11.9
Lakefield.....	Aug. 1920	60	853.2	4,258	45.0
Lambeth.....	April 1915	25	373.0	1,214	33.7
Lanark.....	Sept. 1921	60	170.1	697	6.9
Lancaster.....	May 1921	60	70.8	382	14.1
La Salle.....	Nov. 1925	25	564.7	2,355	19.3
Leamington.....	Feb. 1919	25	3,014.8	15,048	11.7
Lindsay.....	Mar. 1916	60	4,505.0	23,307	19.9
Listowel.....	June 1916	25	1,687.0	8,318	7.0
London.....	Jan. 1911	60	47,942.7	275,502	13.9
London Twp.—V.A.....	Sept. 1917	25**	1,028.2	4,081	21.4
Long Branch.....	Jan. 1931	25	3,425.7	16,592	23.1
Lucan.....	Feb. 1915	25	362.4	1,594	15.0
Lucknow.....	Jan. 1921	60	467.8	2,089	3.3
Lynden.....	Nov. 1915	25	143.5	640	14.7
Madoc.....	Mar. 1916	60	512.0	2,021	21.1
Markdale.....	Mar. 1916	60	337.0	1,497	15.5
Markham.....	April 1920	25*	560.0	2,587	19.4
Marmora.....	Jan. 1921	60	244.8	917	12.9
Martintown.....	May 1921	60	66.3	264	17.9
Maxville.....	Feb. 1921	60	196.2	840	24.6
Meaford.....	Jan. 1924	60	1,185.1	5,273	9.4
Merlin.....	Dec. 1922	25	158.6	608	18.2
Merrickville.....	July 1950	60	283.8		
Merritton.....	Nov. 1920	25	9,835.6	65,331	14.0
Midland.....	July 1911	60	4,378.6	21,647	5.8
Mildmay.....	April 1930	60	231.2	1,103	6.3
Millbrook.....	Mar. 1916	60	223.7	898	10.0
Milton.....	April 1913	25	2,028.9	8,785	16.3
Milverton.....	June 1916	25	555.0	2,026	13.1
Mimico.....	May 1912	25	4,201.4	20,096	16.5
Mitchell.....	Sept. 1911	25	1,168.3	5,248	15.1
Moorefield.....	Mar. 1918	25	94.7	358	9.5
Morrisburg.....	June 1938	60	669.7	3,468	11.2
Mount Brydges.....	Mar. 1915	25*	175.5	747	23.0
Mount Forest.....	Dec. 1915	60	886.5	3,617	15.3
Napanee.....	Mar. 1916	60	1,905.4	9,725	9.9
Neustadt.....	Dec. 1918	60	107.2	478	21.3
Newboro.....	Dec. 1948	60	47.1	178	18.2
Newburgh.....	Mar. 1916	60	109.8	472	39.0

**Oxford Park Section changed to 60 cycles in period ending May 31, 1951.

*Changed from 25 to 60 cycles in period ending May 31, 1951.

LOADS OF MUNICIPAL SYSTEMS 1950

Municipality	Date of first delivery	Fre- quency Decem- ber 31, 1950	December 1950 peak load	Consump- tion fiscal year (14 months)	Increase (or decrease) in consump- tion, calendar year 1950 over 1949
		cycles	kilowatts	'000 kwh	percentage

SOUTHERN ONTARIO SYSTEM—Continued

Newbury.....	Mar. 1921	25	67.7	321	15.4
Newcastle.....	Mar. 1916	60	407.2	1,718	17.5
New Hamburg.....	Mar. 1911	25	850.5	3,364	8.5
Newmarket.....	Dec. 1920	60	2,637.1	12,452	17.6
New Toronto.....	Feb. 1914	25	11,769.0	69,151	9.4
Niagara.....	Aug. 1919	25	1,082.7	6,197	11.4
Niagara Falls.....	Dec. 1915	25	12,927.8	68,123	12.4
North York Twp.—V.A....	Nov. 1923	25**	35,688.5	152,506	50.7
Norwich.....	May 1912	25	655.0	2,800	11.9
Norwood.....	Feb. 1921	60	260.1	1,339	9.4
Oakville.....	Jan. 1930	25 & 66 $\frac{2}{3}$ †	3,567.4	16,594	23.4
Oil Springs.....	Feb. 1918	60	195.6	1,123	3.6
Omeme.....	Jan. 1918	60	202.0	1,016	19.3
Orangeville.....	July 1916	60	1,311.8	6,017	18.7
Orono.....	Mar. 1916	60	189.2	745	18.2
Oshawa.....	Mar. 1916	60	24,679.7	125,439	32.9
Ottawa.....	Jan. 1914	60	55,928.8	253,965	42.1
Otterville.....	Feb. 1916	25	213.7	908	11.9
Owen Sound.....	Dec. 1915	60	8,093.4	38,679	8.9
Paisley.....	Sept. 1923	60	258.5	1,078	9.5
Palmerston.....	July 1916	25	676.7	4,099	11.7
Paris.....	Feb. 1914	25	2,453.5	12,007	12.6
Parkhill.....	May 1920	25	423.2	1,982	9.0
Parry Sound.....	Aug. 1946	60	616.1	1,788	7.0
Penetanguishene.....	July 1911	60	1,383.4	6,906	6.7
Perth.....	Feb. 1919	60	2,229.6	10,214	11.6
Peterborough.....	Mar. 1913	60	21,500.2	119,337	14.7
Petrolia.....	May 1916	60	1,113.2	6,075	7.9
Picton.....	April 1919	60	2,026.5	10,271	12.6
Plattsville.....	Dec. 1914	25	265.4	995	11.9
Point Edward.....	Nov. 1916	60	2,377.3	9,971	11.5
Port Carling.....	April 1929	60	157.2	1,242	6.4
Port Colborne.....	Mar. 1920	25	2,679.0	12,814	18.2
Port Credit.....	Aug. 1912	25	1,853.5	9,002	22.9
Port Dalhousie.....	Nov. 1912	25	1,132.2	6,783	13.7
Port Dover.....	Dec. 1921	25	888.2	4,135	6.5
Port Elgin.....	April 1930	60	629.6	3,262	9.2
Port Hope.....	Mar. 1916	60	4,230.6	22,606	21.4
Port McNicoll.....	Jan. 1915	60	161.8	730	18.4
Port Perry.....	Sept. 1922	60	530.8	2,291	15.2
Port Rowan.....	Nov. 1926	25	185.0	723	15.0
Port Stanley.....	April 1912	25	664.3	5,103	6.6
Prescott.....	Dec. 1913	60	1,383.0	6,933	9.9
Preston.....	Jan. 1911	25	4,925.8	19,531	8.8
Priceville.....	Mar. 1921	60	18.7	72	4.6

**Part served at 66 $\frac{2}{3}$ cycles changed to 60 cycles in period ending May 31, 1951.

†Albion Park Section changed to 60 cycles in period ending May 31, 1951.

LOADS OF MUNICIPAL SYSTEMS 1950

Municipality	Date of first delivery	Frequency December 31, 1950	December 1950 peak load	Consumption fiscal year (14 months)	Increase (or decrease) in consumption, calendar year 1950 over 1949
		cycles	kilowatts	'000 kwh	percentage

SOUTHERN ONTARIO SYSTEM—Continued

Princeton.....	Jan. 1915	25	151.1	619	8.9
Queenston.....	Mar. 1921	25	208.0	963	14.9
Renfrew.....	Dec. 1944	60	1,336.3	5,698	25.0
Richmond.....	Aug. 1928	60	156.5	583	24.0
Richmond Hill.....	June 1925	60	1,086.4	4,568	20.4
Ridgetown.....	Dec. 1915	25	739.4	3,392	11.2
Ripley.....	Jan. 1921	60	144.0	637	7.6
Riverside.....	Nov. 1922	25	2,448.5	11,373	23.9
Rockwood.....	Sept. 1913	25	249.7	986	25.4
Rodney.....	Feb. 1917	25	248.4	1,033	10.9
Rosseau.....	July 1931	60	32.5	189	1.5
Russell.....	Feb. 1926	60	126.5	522	9.9
St. Catharines.....	April 1914	25 & 60	31,536.3	168,804	18.8
St. Clair Beach.....	Nov. 1922	25	152.4	682	20.4
St. George.....	Sept. 1915	25	246.6	1,133	7.4
St. Jacobs.....	Sept. 1917	25	357.0	1,472	3.1
St. Marys.....	May 1911	25*	2,235.5	11,202	7.9
St. Thomas.....	April 1911	25	9,518.0	56,397	12.1
Sarnia.....	Dec. 1916	60	13,804.7	91,108	13.2
Scarborough Twp.—V.A.....	Aug. 1918	60	16,350.3	70,726	40.8
Seaforth.....	Nov. 1911	25*	1,373.6	5,421	10.4
Shelburne.....	July 1916	60	499.2	2,124	16.1
Simcoe.....	April 1915	25	3,379.7	16,522	7.2
Smiths Falls.....	Sept. 1918	60	4,104.0	20,513	0.5
Smithville.....	Jan. 1930	25	461.0	1,506	8.0
Southampton.....	April 1930	60	677.5	3,618	9.2
Springfield.....	Aug. 1917	25	122.3	488	12.5
Stamford Twp.—V.A.....	Nov. 1916	25	5,758.0	27,399	20.1
Stayner.....	Oct. 1913	60	451.8	1,919	9.0
Stirling.....	Mar. 1916	60	526.0	2,360	15.1
Stoney Creek.....	Jan. 1930	25	804.2	3,570	27.3
Stouffville.....	Sept. 1923	60	687.8	3,078	17.3
Stratford.....	Jan. 1911	25	8,795.4	50,158	15.2
Strathroy.....	Dec. 1914	25*	1,914.5	9,649	7.7
Streetsville.....	Dec. 1934	25	790.1	4,274	12.5
Sunderland.....	Nov. 1914	60	236.8	798	19.2
Sutton.....	Aug. 1923	60	405.1	2,325	7.5
Swansea.....	Oct. 1937	25	3,809.0	19,763	12.7
Tara.....	Feb. 1918	60	205.6	805	5.3
Tavistock.....	Nov. 1916	25	702.6	3,067	3.4
Tecumseh.....	Nov. 1922	25	748.5	3,733	13.7
Teeswater.....	Dec. 1920	60	304.0	1,362	9.3
Thamesford.....	Feb. 1914	25	321.1	1,308	13.3
Thamesville.....	Oct. 1915	25	448.4	1,445	19.6
Thedford.....	May 1922	25*	208.8	987	19.9

*Changed from 25 to 60 cycles in period ending May 31, 1951.

LOADS OF MUNICIPAL SYSTEMS 1950

Municipality	Date of first delivery	Fre- quency Decem- ber 31, 1950	December 1950 peak load	Consump- tion fiscal year (14 months)	Increase (or decrease) in consump- tion, calendar year 1950 over 1949
		cycles	kilowatts	'000 kwh	percentage
SOUTHERN ONTARIO SYSTEM—Continued					
Thornbury.....	Sept. 1944	60	228.2	729	52.2
Thorndale.....	Mar. 1914	25	135.6	507	8.1
Thornton.....	Nov. 1918	60	69.0	189	0.4
Thorold.....	Jan. 1921	25	3,692.1	25,274	12.7
Tilbury.....	April 1915	25	1,206.9	5,752	18.3
Tillsonburg.....	Aug. 1911	25	2,607.3	11,341	17.4
Toronto.....	June 1911	25 & 60	420,203.0	2,378,872	12.4
Toronto Twp.—V.A.....	Aug. 1913	25	9,039.9	44,554	26.1
Tottenham.....	Oct. 1918	60	224.0	907	13.9
Trafalgar Twp.—V.A.....	Dec. 1923	25 & 66½‡	1,589.2	6,040	35.5
Trenton.....	Mar. 1916	60	6,844.2	38,102	10.3
Tweed.....	Mar. 1916	60	601.9	2,880	25.3
Uxbridge.....	Sept. 1922	60	639.1	2,844	18.8
Victoria Harbour.....	July 1914	60	128.0	696	14.9
Walkerton.....	April 1930	60	1,521.0	6,347	14.8
Wallaceburg.....	Feb. 1915	25	7,091.1	44,008	8.8
Wardsville.....	June 1921	25	126.5	552	23.8
Warkworth.....	Oct. 1923	60	152.0	506	23.9
Waterdown.....	Nov. 1911	25	570.6	2,416	20.6
Waterford.....	April 1915	25	721.8	2,720	17.7
Waterloo.....	Dec. 1910	25	7,479.0	38,053	13.0
Watford.....	Sept. 1917	60	582.1	2,387	17.5
Waubauskene.....	Dec. 1914	60	131.7	768	2.0
Welland.....	Sept. 1917	25	11,128.8	58,886	11.1
Wellesley.....	Nov. 1916	25	200.1	795	14.4
Wellington.....	April 1919	60	348.0	1,531	10.1
West Lorne.....	Jan. 1917	25	644.0	2,338	10.2
Weston.....	Aug. 1911	25	6,163.0	33,224	18.6
Westport.....	Nov. 1931	60	192.4	770	17.5
Wheatley.....	Feb. 1924	25	402.0	1,919	7.3
Whitby.....	Mar. 1916	60	2,367.5	11,814	17.3
Warton.....	Apr 1 1930	60	616.0	3,531	10.3
Williamsburg.....	April 1915	60	106.4	537	1.1
Winchester.....	Jan. 1914	60	573.2	2,697	8.7
Windermere.....	June 1930	60	41.9	302	19.4
Windsor.....	Oct. 1914	25	57,180.0	308,180	17.1
Wingham.....	Dec. 1920	60	1,358.8	5,973	17.0
Woodbridge.....	Dec. 1914	25*	1,526.1	7,732	39.5
Woodstock.....	Jan. 1911	25	10,225.0	51,861	14.2
Woodville.....	Nov. 1914	60	98.0	351	2.6
Wyoming.....	Nov. 1916	60	171.5	668	3.5
York Twp.—V.A.....	Jan. 1913	25	33,420.0	168,058	20.2
Zurich.....	Sept. 1917	25	206.6	813	11.1

‡Part served at 66½ cycles changed to 60 cycles in period ending May 31, 1951.

*Changed from 25 to 60 cycles in period ending May 31, 1951.

LOADS OF MUNICIPAL SYSTEMS 1950

Municipality	Date of first delivery	Frequency Decem- ber 31, 1950	December 1950 peak load	Consump- tion fiscal year (14 months)	Increase (or decrease) in consump- tion, calendar year 1950 over 1949
		cycles	kilowatts	'000 kwh	percentage

THUNDER BAY SYSTEM

Atikokan Imp. Dist.	Dec. 1944	60	838.0	3,350	58.8
Beardmore Imp. Dist.	June 1937	60	235.6	1,213	1.7
Fort William.	Oct. 1926	60	25,873.3	160,638	22.7
Geraldton.	Feb. 1937	60	777.4	3,893	1.1
Nipigon Twp.—V.A.	Jan. 1925	60	624.0	3,353	15.2
Port Arthur.	Dec. 1910	60	27,175.6	134,148	2.0
Red Rock Imp. Dist.	Feb. 1948	60	372.0	1,698	11.0
Schreiber Twp.—V.A.	Nov. 1948	60	405.0	1,896	71.5
Terrace Bay Imp. Dist.	Jan. 1948	60	785.4	4,477	12.0

NORTHERN ONTARIO PROPERTIES

Cache Bay.	Dec. 1950	60	40.0	.....	.....
Capreol.	May 1935	60	786.0	3,773	10.4
Cobalt.	Jan. 1945	60	768.0	.....	.....
Cottage Cove.	Nov. 1940	60	156.3	827	3.6
Elk Lake.	Jan. 1945	25	109.4	405	1.5
Englehart.	Jan. 1945	60	527.2	2,172	21.2
Haileybury.	Jan. 1945	60	972.4	4,442	5.7
Hislop Townsite.	Oct. 1936	25	61.6	261	25.4
Hudson.	Oct. 1939	60	115.5	538	1.0
Kearns Townsite.	Dec. 1938	25	117.7	516	10.6
King Kirkland Townsite. .	Dec. 1936	25	55.7	217	10.7
Larder Lake.	Mar. 1949	60	460.0	2,188	.....
Latchford.	April 1950	60	44.9	.....	.....
Matachewan Townsite.	April 1935	25	244.7	1,039	3.4
Matheson.	Dec. 1935	25	235.6	1,011	61.4
McGarry Imp. Dist.	Mar. 1949	60	535.4	2,155	.....
New Liskeard.	Jan. 1945	60	1,654.9	7,653	11.5
North Bay.	Mar. 1916	60	6,824.1	41,972	9.9
Powassan.	Mar. 1916	60	222.4	790	2.9
Red Lake Townsite.	June 1938	60	567.2	3,190	10.1
Schumacher.	Jan. 1945	25	841.4	3,746	1.1
Sioux Lookout.	Sept. 1939	60	766.2	4,201	16.8
South Porcupine.	Jan. 1945	25	1,301.0	6,010	2.5
Sudbury.	Feb. 1930	60	15,768.0	73,056	15.3
Swastika Townsite.	Jan. 1945	25	321.5	1,384	3.1
Teck Twp.	Jan. 1945	25&60	4,704.0	20,663	2.2
Thornloe.	Jan. 1945	60	28.0	.....	.....
Timmins.	Jan. 1945	25	7,410.0	33,731	12.9

APPENDIX II

SCHEDULES IN SUPPORT OF FINANCIAL STATEMENTS PRESENTED IN SECTION II

Including Statements of the Cost of Power to, and Sinking Fund Payments of, Municipalities served by the Southern Ontario and Thunder Bay Systems

THE statements which follow provide details in support of the financial statements found in Section II, pages 23 to 37. In previous issues of the Report all of these financial statements were presented in Section IX. Current practice in designing annual reports has prompted the placing of those statements which are probably of greatest interest to the majority of readers in a more prominent position. In order to facilitate the finding of the various accounts and statements thus rearranged, they have been numbered consecutively and listed in an index which appears in both Section II and Appendix II.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

FINANCIAL ACCOUNTS

For the fourteen-month period ended December 31, 1950

Relating to Properties operated on a "Cost Basis" for the Co-operating
Municipalities and Rural Power Districts which are supplied with
Electric Power and Services from the following Properties:

Southern Ontario System

Thunder Bay System

Service and Administrative Buildings and Equipment

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Balance Sheet as at December 31, 1950	1	26
Statement of Operations for the fourteen-month period ended December 31, 1950	2	28
Schedules supporting the Balance Sheet as at December 31, 1950:		
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Statements of Sinking Fund Payments by Municipalities	17 & 18	326

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of
Ontario in trust for the Province of Ontario

FINANCIAL ACCOUNTS

For the fourteen-month period ended December 31, 1950

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Statement No. 7

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS

FIXED ASSETS—Summary, December 31, 1950

System or property	Under construction	In service		Total
		Non-depreciable	Depreciable	
	\$	\$	\$	\$
Southern Ontario System.....	83,079,147.82	110,016,025.02	375,743,787.92	568,838,960.76
Thunder Bay System.....	1,110,638.69	5,690,332.59	64,483,724.26	71,284,695.54
Administrative and service buildings and equipment...	1,066,506.58	657,913.87	12,993,287.92	14,717,708.37
Rural Power Districts.....	3,301,352.52	37,559.97	93,941,429.74	97,280,342.23
	88,557,645.61	116,401,831.45	547,162,229.84	752,121,706.90
Less grants in aid of construction—Province of Ontario for Rural Power Districts....				48,223,013.73
				703,898,693.17

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO SYSTEM

FIXED ASSETS—December 31, 1950

Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
	\$	\$	\$	\$
GENERATING STATIONS				
Niagara Division:				
Niagara River:				
Sir Adam Beck—Niagara				
No. 1.....	2,446.13	47,939,824.30	28,693,417.48	76,635,687.91
Sir Adam Beck—Niagara				
No. 2.....	859,370.68			859,370.68
Ontario Power.....		7,281,151.42	14,440,029.89	21,721,181.31
Toronto Power.....	6,719.82	3,823,379.60	7,625,168.44	11,455,267.86
Weir.....		416,326.62		416,326.62
Ottawa River:				
Chats Falls.....	44,393.58	817,741.54	6,497,100.69	7,359,235.81
Chenau.....	16,456,880.02	721,290.00	6,925,710.00	24,103,880.02
Des Joachims.....		13,639,498.00	56,633,865.36	70,273,363.36
Otto Holden.....	25,060,931.10			25,060,931.10
Power sites, etc.....	786,242.82			786,242.82
Welland Canal:				
DeCew Falls.....	52,765.63	9,153,117.56	17,251,620.32	26,457,503.51
Long Lac Diversion.....	26,253.29	266,310.12	610,871.05	903,434.46
Ogoki Diversion.....		3,300,590.69	1,740,609.06	5,041,199.75
Diesel generation.....			217,679.70	217,679.70
Steam generating stations:				
J. Clark Keith, Windsor.....	10,558,613.11			10,558,613.11
Richard L. Hearn, Toronto.....	9,846,854.42			9,846,854.42
Auxiliaries.....			6,419,336.35	6,419,336.35
Georgian Bay Division:				
Muskoka River: (below lake)				
Bala No. 1 and No. 2.....		69,120.64	43,379.34	112,499.98
Ragged Rapids.....		70,889.49	1,257,982.28	1,328,871.77
Big Eddy.....		170,434.74	1,118,218.39	1,288,653.13
Land and water rights.....		17,224.03		17,224.03
Seyvern River:				
Wasdells.....	286.39	13,752.32	212,854.44	226,893.15
Big Chute.....	3,931.93	178,040.48	566,364.36	748,336.77
Beaver River:				
Eugenia.....		142,538.73	1,170,166.50	1,312,705.23
Saugeen River:				
Hanover.....		10,000.00		10,000.00
Walkerton.....		100,461.31	104,934.33	205,395.64
Muskoka River: (above lake)				
South Falls.....	2,098.41	17,934.95	563,100.65	583,134.01
Trethewey Falls.....		51,549.45	305,605.47	357,154.92
Hanna Chute.....		33,469.30	207,373.10	240,842.40
Hollow Lake Dam.....		18,425.43	29,540.16	47,965.59
Sauble River:				
Lands and rights.....		4,200.00		4,200.00
Credit River:				
Caledon.....		7,675.00	27,795.02	35,470.02
Magnetawan River:				
Burks Falls.....	1,947.30	24,134.00	153,429.85	179,511.15
Miscellaneous.....		1,735.29	44,481.06	46,216.35
Eastern Ontario Division:				
Fenelon River:				
Fenelon Falls.....	154.30	60,000.00	103,093.00	163,247.30
Otonabee River:				
Auburn.....		31,400.00	302,174.05	333,574.05
Lakefield.....		19,620.05	216,651.44	236,271.49

Statement No. 7A

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO SYSTEM

FIXED ASSETS—December 31, 1950

Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
GENERATING STATIONS— (Continued)	\$	\$	\$	\$
Trent River:				
Heely Falls.....	7,033.64		1,212,113.67	1,219,147.31
Seymour.....	2,542.92		314,003.09	316,546.01
Ranney Falls.....		18,596.20	1,416,784.95	1,435,381.15
Crow River.....		1,000.00		1,000.00
Hagues Reach.....			572,466.30	572,466.30
Meyersburg.....	327.15		837,281.91	837,609.06
Sills Island.....		38,679.36	282,696.83	321,376.19
Frankford.....	17,862.15		252,879.93	270,742.08
Sidney.....			249,850.46	249,850.46
Mississippi River:				
High Falls.....		13,154.84	709,988.90	723,143.74
Galetta.....		20,000.00	137,398.19	157,398.19
Madawaska River:				
Barrett Chute.....	1,666.11	712,352.73	3,994,570.45	4,708,589.29
Calabogie.....		79,825.74	679,927.48	759,753.22
Stewartville.....	24,329.52	840,221.08	10,589,463.59	11,454,014.19
Bark Lake Dam.....	111.42	610,309.25	799,933.87	1,410,354.54
Kaministiquia Dam.....		24,980.86	1,795.46	26,776.32
Undeveloped sites.....	229,517.10	800,000.00		1,029,517.10
Rideau River:				
Merrickville.....	1,327.84	7,547.51	112,070.00	120,945.35
Miscellaneous.....		14.00	36,354.94	36,368.94
Intangible.....		2,217,761.29		2,217,761.29
	63,994,606.78	93,786,277.92	175,682,131.80	333,463,016.50
TRANSFORMER STATIONS				
Niagara Division.....	7,625,261.92		96,465,253.57	104,090,515.49
Georgian Bay Division.....	12,765.37		4,370,244.95	4,383,010.32
Eastern Ontario Division.....	647,527.65		10,166,756.07	10,814,283.72
	8,285,554.94		111,002,254.59	119,287,809.53
TRANSMISSION LINES				
Niagara Division.....	8,255,025.11	14,718,105.29	66,815,598.84	89,788,729.24
Georgian Bay Division.....	105,478.63	147,890.28	4,340,275.06	4,593,643.97
Eastern Ontario Division.....	1,784,832.68	1,363,751.53	12,050,285.97	15,198,870.18
	10,145,336.42	16,229,747.10	83,206,159.87	109,581,243.39
LOCAL SYSTEMS				
Niagara Division.....	61.90		88,246.20	88,308.10
Georgian Bay Division.....	3,372.81		166,936.83	170,309.64
	3,434.71		255,183.03	258,617.74
COMMUNICATIONS				
Southern Ontario System.....	650,214.97		5,598,058.63	6,248,273.60
Sub-total.....	83,079,147.82	110,016,025.02	375,743,787.92	568,838,960.76
RURAL POWER DISTRICT				
H-E.P.C. investment.....	1,654,203.26	37,559.97	46,396,731.94	48,088,495.17
Government grants.....	1,623,960.01		45,630,348.21	47,254,308.22
	86,357,311.09	110,053,584.99	467,770,868.07	664,181,764.15

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

THUNDER BAY SYSTEM

FIXED ASSETS—December 31, 1950

Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
GENERATING STATIONS:	\$	\$	\$	\$
Nipigon River:				
Cameron Falls.....	182,870.41	857,418.84	9,111,838.36	10,152,127.61
Alexander.....	204,228.86	77,090.06	6,932,202.67	7,213,521.59
Pine Portage.....		2,630,000.00	24,458,989.33	27,088,989.33
Virgin Falls Dam.....		55,450.41	431,190.80	486,641.21
Aguasabon River:				
Aguasabon.....		937,004.94	11,845,859.45	12,782,864.39
Kaministiquia River:				
Kakabeka Falls.....		516,753.86	3,681,569.63	4,198,323.49
	387,099.27	5,073,718.11	56,461,650.24	61,922,467.62
TRANSFORMER STATIONS.....	196,404.13		1,737,824.39	1,934,228.52
TRANSMISSION LINES.....	490,939.48	616,614.48	5,907,237.28	7,014,791.24
COMMUNICATIONS.....	34,699.16		249,327.48	284,026.64
LOCAL SYSTEMS.....	1,496.65		127,684.87	129,181.52
Sub-total.....	1,110,638.69	5,690,332.59	64,483,724.26	71,284,695.54
RURAL POWER DISTRICT:				
H-E.P.C. investment.....	11,615.38		957,217.95	968,833.33
Government grants.....	11,573.87		957,131.64	968,705.51
	23,189.25		1,914,349.59	1,937,538.84
	1,133,827.94	5,690,332.59	66,398,073.85	73,222,234.38

Statement No. 7C

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
ADMINISTRATIVE BUILDINGS AND SERVICE BUILDINGS AND EQUIPMENT

FIXED ASSETS—December 31, 1950

Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
ADMINISTRATIVE BUILDINGS:	\$	\$	\$	\$
Toronto—University Ave...	81,529.97	458,909.07	4,098,556.61	4,638,995.65
—210 Bloor St. W..	29,264.63	42,000.00	228,000.00	299,264.63
	110,794.60	500,909.07	4,326,556.61	4,938,260.28
SERVICE BUILDINGS AND EQUIPMENT:				
Buildings:				
Toronto—Strachan Avenue.	17,231.78		192,491.78	209,723.56
—1379 Bloor St. W.			50,000.00	50,000.00
A. W. Manby Service Centre	830,236.38	157,004.80	5,003,797.34	5,991,038.52
Cobourg.....			4,879.24	4,879.24
Sir Adam Beck—Niagara				
Generating Station No. 2				
warehouse.....	108,243.82			108,243.82
Hamilton.....			550,000.00	550,000.00
Equipment:				
Toronto.....			1,254,979.27	1,254,979.27
Regions.....			242,557.91	242,557.91
Office equipment:				
Toronto.....			806,253.89	806,253.89
Regions.....			561,771.88	561,771.88
	955,711.98	157,004.80	8,666,731.31	9,779,448.09
	1,066,506.58	657,913.87	12,993,287.92	14,717,708.37

THE HYDRO-ELECTRIC POWER
STATEMENT SHOWING CHANGES IN FIXED ASSETS—

Class of asset	Balance at beginning of period	Expenditures during period
SOUTHERN ONTARIO SYSTEM		
GENERATING STATIONS	\$	\$
Niagara Division:		
Sir Adam Beck—Niagara No. 1	76,644,585.99	1,006.92
Sir Adam Beck—Niagara No. 2		859,370.68
Ontario Power	21,721,181.31	
Toronto Power	11,450,401.94	4,865.92
Niagara Weir	416,326.62	
Chats Falls	7,301,586.71	109,216.91
Chenau	12,862,214.50	11,241,665.52
Des Joachims	47,546,854.86	22,709,678.50
Otto Holden	9,918,277.40	15,142,653.70
DeCew Falls	26,431,450.47	38,824.93
Ogoki Diversion	5,033,297.88	7,901.87
Steam generation:		
J. Clark Keith, Windsor	2,964,700.69	7,593,912.42
Richard L. Hearn, Toronto	497,155.23	9,349,699.19
Auxiliaries	4,109,313.34	2,700,413.45
Diesel generation	215,824.08	3.14
Other properties	1,665,653.08	26,253.29
Georgian Bay Division:		
Eugenia	1,313,804.88	1,674.35
Ragged Rapids	1,329,642.14	120.55
Big Eddy	1,288,653.13	
Big Chute	745,119.43	4,712.24
South Falls	583,796.21	662.20
Trethewey Falls	357,154.92	
Other properties	899,382.94	188,169.54
Eastern Ontario Division:		
Hagues Reach	572,466.30	
Auburn	334,348.11	40.30
Seymour	308,840.78	790.93
Ranney Falls	1,435,381.15	
Heely Falls	1,206,341.33	12,805.98
Meyersburg	837,594.50	14.56
High Falls	720,393.15	4,721.56
Barrett Chute	4,714,431.69	551.10
Bark Lake Dam	1,410,243.12	111.42
Calabogie	759,370.22	383.00
Stewartville	11,408,127.50	45,886.69
Sills Island	321,376.19	
Intangible and undeveloped sites	3,193,842.95	53,435.44
Other properties	1,137,507.20	126,328.29
	263,656,641.94	70,224,469.59
TRANSFORMER STATIONS		
Niagara Division	81,821,673.45	22,856,773.05
Georgian Bay Division	3,945,409.53	523,776.57
Eastern Ontario Division	8,688,028.83	2,289,150.37
	94,455,111.81	25,669,699.99
TRANSMISSION LINES		
Niagara Division	67,080,679.53	22,802,710.11
Georgian Bay Division	4,932,210.95	88,012.33
Eastern Ontario Division	12,937,542.76	2,354,254.79
	84,950,433.24	25,244,977.23
COMMUNICATIONS		
All divisions	3,365,528.38	2,667,763.43

COMMISSION OF ONTARIO

Statement No. 8

For the Fourteen-Month Period Ended December 31, 1950

Adjustment for equipment relocated	Retirements		Balance at end of period
	Values recovered (stores, sales and salvage)	Charged to reserves for depreciation and contingencies	
\$	\$	\$	\$
3,005.00	6,400.00	500.00	76,635,687.91
.....	.....	.....	859,370.68
.....	.....	.....	21,721,181.31
.....	.....	.....	11,455,267.86
.....	.....	.....	416,326.62
51,500.00	67.81	.....	7,359,235.81
.....	.....	.....	24,103,880.02
16,830.00	.....	.....	70,273,363.36
.....	12,771.89	.....	25,060,931.10
.....	.....	.....	26,457,503.51
.....	.....	.....	5,041,199.75
.....	.....	.....	10,558,613.11
.....	.....	.....	9,846,854.42
.....	.....	390,390.44	6,419,336.35
.....	.....	1,852.48	217,679.70
2,229.09	.....	.....	1,689,677.28
.....
1,349.00	.....	1,425.00	1,312,705.23
750.00	951.84	50.00	1,328,010.85
.....	.....	.....	1,288,653.13
472.02	87.18	1,018.82	749,197.69
.....	.....	.....	583,134.01
.....	.....	.....	357,154.92
46,846.33	14.47	8,166.03	1,126,218.31
.....	.....	.....	572,466.30
375.00	.....	358.76	333,574.05
6,914.30	.....	.....	316,546.01
.....	.....	.....	1,435,381.15
.....	.....	.....	1,219,147.31
.....	.....	.....	837,609.06
.....	.....	1,970.97	723,143.74
679.00	5,365.50	349.00	4,708,589.29
.....	.....	.....	1,410,354.54
.....	.....	.....	759,753.22
.....	.....	.....	11,454,014.19
.....	.....	.....	321,376.19
.....	.....	.....	3,247,278.39
.....	.....	1,235.36	1,262,600.13
.....
11,175.56	25,658.69	403,611.90	333,463,016.50
.....
82,627.49	71,966.65	433,336.87	104,090,515.49
28,370.06	24,073.59	90,472.25	4,383,010.32
16,409.22	20,116.28	126,369.98	10,814,283.72
.....
70,666.65	116,156.52	650,179.10	119,287,809.53
.....
436,332.48	55,282.66	475,710.22	89,788,729.24
393,021.69	2,275.91	31,281.71	4,593,643.97
41,277.94	4,270.79	47,378.64	15,198,870.18
.....
2,032.85	61,829.36	554,370.57	109,581,243.39
.....
254,590.31	622.20	38,986.32	6,248,273.60

THE HYDRO-ELECTRIC POWER
STATEMENT SHOWING CHANGES IN FIXED ASSETS—

Class of asset	Balance at beginning of period	Expenditures during period
SOUTHERN ONTARIO SYSTEM—(Continued)		
LOCAL SYSTEMS	\$	\$
Niagara Division.....	86,772.54	2,654.56
Georgian Bay Division.....	173,261.20	14,350.43
	260,033.74	17,004.99
Sub-total.....	446,687,749.11	123,823,915.23
RURAL POWER DISTRICT		
H-E.P.C. investments.....	41,226,343.22	7,619,141.65
Government grants.....	40,528,200.08	7,483,097.83
	81,754,543.30	15,102,239.48
Southern Ontario System—Total.....	528,442,292.41	138,926,154.71
THUNDER BAY SYSTEM		
Generating Stations.....	53,525,671.86	8,974,381.33
Transformer Stations.....	1,711,369.11	212,521.50
Transmission Lines.....	4,976,857.55	2,054,759.34
Local System.....	122,322.16	7,085.23
Communications.....	139,792.09	144,294.98
Sub-total.....	60,476,012.77	11,393,042.38
RURAL POWER DISTRICT		
H-E.P.C. investments.....	803,115.46	182,620.89
Government grants.....	803,075.45	182,533.07
	1,606,190.91	365,153.96
Thunder Bay System—Total.....	62,082,203.68	11,758,196.34
ADMINISTRATIVE BUILDINGS AND SERVICE BUILDINGS AND EQUIPMENT		
ADMINISTRATIVE BUILDINGS:		
Toronto—University Avenue.....	4,380,921.89	486,897.82
—210 Bloor Street West.....	238,774.82	60,489.81
	4,619,696.71	547,387.63
SERVICE BUILDINGS AND EQUIPMENT:		
Buildings:		
Toronto—Strachan Avenue.....	192,993.78	.....
—1379 Bloor Street West.....	50,000.00	.....
A. W. Manby Service Centre.....	4,237,770.54	1,915,472.98
Other properties.....	554,879.24	153,243.82
Equipment—Toronto.....	1,105,659.20	331,954.88
—Regions.....	124,960.44	67,021.48
Office equipment—Toronto.....	†572,861.31	233,392.58
—Regions.....	†475,197.60	137,150.27
	7,314,322.11	2,838,236.01
Total.....	11,934,018.82	3,385,623.64
Grand total.....	602,458,514.91	154,069,974.69
Less grants in aid of construction:		
Province of Ontario for Rural Power Districts.....	41,331,275.53	6,891,738.20
Total fixed assets.....	561,127,239.38	147,178,236.49

†Classified as inventory in prior years

*Portion charged to Operations

THE HYDRO-ELECTRIC POWER COMMISSION

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COMMISSION OF ONTARIO

Statement No. 8

For the Fourteen-Month Period Ended December 31, 1950

Adjustment for equipment relocated	Retirements		Balance at end of period
	Values recovered (stores, sales and salvage)	Charged to reserves for depreciation and contingencies	
\$	\$	\$	\$
.....	309.55	809.45	88,308.10
.....	15,838.59	1,463.40	170,309.64
.....	16,148.14	2,272.85	258,617.74
197,132.07	220,414.91	1,649,420.74	568,838,960.76
4,691.83	663,082.04	89,215.83	48,088,495.17
4,691.82	663,082.04	89,215.83	47,254,308.22
9,383.65	1,326,164.08	178,431.66	95,342,803.39
187,748.42	1,546,578.99	1,827,852.40	664,181,764.15
.....	478,224.97	99,360.60	61,922,467.62
50,083.00	21,823.06	17,922.03	1,934,228.52
.....	4,038.65	12,787.00	7,014,791.24
.....	70.79	155.08	129,181.52
.....	60.43	.....	284,026.64
50,083.00	504,217.90	130,224.71	71,284,695.54
.....	16,493.52	409.50	968,833.33
.....	16,493.51	409.50	968,705.51
.....	32,987.03	819.00	1,937,538.84
50,083.00	537,204.93	131,043.71	73,222,234.38
.....
192,831.42	.....	*35,992.64	4,638,995.65
.....	.....	.....	299,264.63
192,831.42	.....	35,992.64	4,938,260.28
.....
502.00	.....	.....	192,491.78
.....	.....	.....	50,000.00
.....	72,186.92	*72,786.30	6,008,270.30
45,000.00	.....	.....	663,123.06
502.00	24,504.33	*158,632.48	1,254,979.27
50,575.99	.....	.....	242,557.91
.....	.....	.....	806,253.89
50,575.99	.....	.....	561,771.88
45,000.00	96,691.25	231,418.78	9,779,448.09
237,831.42	96,691.25	267,411.42	14,717,708.37
.....	2,180,475.17	2,226,307.53	752,121,706.90
.....	.....	.....	48,223,013.73
.....	2,180,475.17	2,226,307.53	703,898,693.17

Depreciation.....\$ 1,071,312.57
Contingencies.....621,149.28
Amortization of auxiliary steam plants charged to Contingencies... 420,806.04
Operations.....113,039.64

Statement No. 9

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS
DEPRECIATION RESERVES—December 31, 1950

	Southern Ontario System	Thunder Bay System	Administrative and service buildings and equipment	Totals
	\$	\$	\$	\$
Balances at November 1, 1949	81,175,110.48	6,098,968.07	*1,200,413.95	*88,474,492.50
Add:				
Interest at 4% per annum on reserve balances.....	3,788,171.82	284,618.52	51,942.94	4,124,733.28
Provision in the 14-month period—direct.....	5,161,516.65	504,727.82		5,666,244.47
—indirect.....			368,592.86	368,592.86
Sub-total.....	90,124,798.95	6,888,314.41	1,620,949.75	98,634,063.11
Deduct:				
Amount withdrawn for re- newals.....	250,092.25	4,454.40		254,546.65
Amount withdrawn in re- spect of assets removed from service.....	851,509.78	65,431.01	154,371.78	1,071,312.57
Excess reserve accumulated against assets removed from service—transferred to contingency reserve...	87,989.83			87,989.83
Sundry adjustments (net)...	45,559.23	7,704.71	29,021.84	66,876.36
Balances at December 31, 1950	88,889,647.86	6,826,133.71	1,437,556.13	97,153,337.70

*Includes reserve of \$87,351.10 against office furniture and equipment—classified as inventory in prior years.

Statement No. 10

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
SOUTHERN ONTARIO SYSTEM
FREQUENCY STANDARDIZATION RESERVE—December 31, 1950

	\$
Balance at November 1, 1949.....	59,589,685.43
Add:	
Prior year adjustment.....	101,878.00
Interest at 4% per annum on monthly balance.....	1,691,971.20
Provision in the 14-month period.....	6,984,158.80
Industrial consumers' contributions.....	154,240.95
	68,521,934.38
Less expenditures for frequency standardization.....	25,946,637.90
Balance at December 31, 1950.....	42,575,296.48

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS

CONTINGENCIES AND OBSOLESCENCE RESERVES—December 31, 1950

	Southern Ontario System	Thunder Bay System	Totals
	\$	\$	\$
Balances at November 1, 1949.....	23,897,991.28	6,799,401.36	30,697,392.64
Add:			
Interest at 4% per annum on reserve balances.....	1,111,355.06	259,506.86	1,370,861.92
Provision in the 14-month period.....	6,825,505.83	406,331.82	7,231,837.65
Transfer of fire insurance and miscellan- eous reserves no longer carried.....	460,721.34	12,218.47	448,502.87
Excess depreciation reserve accumulated against assets removed from service, transferred from depreciation reserve	87,989.83	.....	87,989.83
Adjustments arising from the transfer of equipment, etc.....	32,412.10	22,260.56	54,672.66
Sub-total.....	32,415,975.44	7,475,282.13	39,891,257.57
Deduct:			
Contingencies met with during the 14- month period.....	662,999.92	12,988.75	675,988.67
Excess of cost of fixed assets retired over accumulated depreciation reserve— current period.....	555,536.58	65,612.70	621,149.28
prior years.....	303,473.87	26,251.83	329,725.70
Amortization of auxiliary steam and diesel generating equipment.....	420,806.04	.....	420,806.04
Balances at December 31, 1950.....	30,473,159.03	7,370,428.85	37,843,587.88

Statement No. 12

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS
STABILIZATION OF RATES RESERVES—December 31, 1950

	Southern Ontario System	Thunder Bay		Total
		System	Mining area	
	\$	\$	\$	\$
Balances at November 1, 1949.	21,609,911.38	534,621.05	542,177.70	22,686,710.13
Interest at 4% per annum on reserve balances.....	1,008,462.52	24,948.97	25,301.62	1,058,713.11
Appropriation in the 14-month period.....			83,476.33	83,476.33
Balances at December 31, 1950	22,618,373.90	559,570.02	650,955.65	23,828,899.57

NOTE: The above amount of \$22,618,373.90 includes special accounts of \$1,820,135.64, \$432,942.60 and \$816,514.19 pertaining to municipalities of the Niagara, Georgian Bay, and Eastern Ontario Divisions respectively.

Statement No. 13

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS
RURAL POWER DISTRICTS—RATES SUSPENSE ACCOUNT—December 31, 1950

	Southern Ontario	Thunder Bay	Total
	\$	\$	\$
Balances at credit or <i>debit</i> November 1, 1949..	2,307,093.66	85,614.60	2,221,479.06
Interest at 4% on monthly balances.....	72,758.35	3,447.82	69,310.53
Excess or <i>deficiency</i> of revenue from sale of power for the 14-month period ended December 31, 1950.....	148,479.58	55,417.78	93,061.80
Adjustments made during the period.....	985.77	1,003.59	17.82
Balances at credit or <i>debit</i> December 31, 1950..	2,527,345.82	143,476.61	2,383,869.21

Statement No. 14

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS

SINKING FUND RESERVES—December 31, 1950

	Southern Ontario System	Thunder Bay System	Administrative and service buildings and equipment	Total
	\$	\$	\$	\$
Balances at November 1, 1949	109,407,621.34	6,235,585.67	1,202,810.82	116,846,017.83
Interest at 4% per annum on reserve balances.....	5,105,689.00	290,994.00	56,020.49	5,452,703.49
Provision in the 14-month period—direct.....	5,183,353.70	625,536.86	.....	5,808,890.56
—indirect.....	.....	.....	104,452.34	104,452.34
Balances at December 31, 1950	119,696,664.04	7,152,116.53	1,363,283.65	128,212,064.22

SOUTHERN ONTARIO

COST OF POWER, AMOUNT BILLED AT INTERIM RATES,

For the Fourteen-Month Period

Municipality	Interim rate per kilowatt	Average load supplied in 14-month period after correction for power factor kilowatts	Share of operating		
			Cost of power purchased	Operating maintenance and administrative expenses	Interest
	\$		\$	\$	\$
Acton	37.50	2,182.4	19,635.21	20,217.90	22,625.86
Agincourt	40.20	497.4	4,475.14	5,468.36	5,935.37
Ailsa Craig	43.50	176.0	1,583.48	2,559.29	2,169.81
Alexandria	44.20	518.1	4,661.38	5,577.06	5,921.83
Alliston	40.80	678.6	6,105.41	8,449.46	6,750.84
Almonte	39.50	571.4	5,140.92	6,821.26	5,661.10
Alvinston	52.20	153.1	1,377.45	2,381.92	2,502.58
Amherstburg	42.20	1,543.5	13,886.97	16,649.66	18,641.43
Ancaster Twp	39.50	582.0	5,236.30	6,876.88	6,520.24
Apple Hill	43.50	49.9	448.95	645.48	488.29
Arkona	52.20	124.6	1,121.03	1,781.71	1,640.80
Arnprior	34.80	1,759.6	15,831.24	15,554.71	14,531.45
Arthur	52.20	287.7	2,588.46	5,601.10	3,561.71
Athens	44.90	152.7	1,373.85	3,305.68	1,289.96
Aurora	36.80	1,735.2	15,611.71	15,089.86	16,872.56
Aylmer	39.50	1,478.9	13,305.76	15,419.83	16,451.73
Ayr	42.90	334.8	3,012.23	3,992.50	3,808.09
Baden	37.50	660.3	5,940.76	5,975.27	6,655.15
Bancroft	52.20	42.7	384.17	6,768.99	4,891.51
Barrie	32.80	5,746.1	51,698.03	53,534.48	42,673.21
Barry's Bay	52.20	70.0	629.80	1,288.95	1,118.41
Bath	51.60	78.7	708.07	1,044.10	648.93
Beachville	38.50	810.8	7,294.82	8,452.28	8,842.43
Beamsville	35.50	696.0	6,261.96	7,445.12	6,174.85
Beaverton	40.20	404.9	3,642.91	5,642.33	3,885.59
Beeton	52.20	151.0	1,358.56	2,471.31	2,028.03
Belle River	44.20	328.3	2,953.74	3,867.87	4,106.13
Belleville	32.10	9,184.8	82,636.25	74,720.11	66,755.88
Blenheim	41.50	740.4	6,661.43	8,390.41	8,949.18
Bloomfield	46.20	192.0	1,727.44	3,984.45	1,835.10
Blyth	46.20	290.9	2,617.25	3,370.42	3,539.01
Bobcaygeon	52.20	212.0	1,907.38	5,990.88	2,258.38
Bolton	42.20	293.9	2,644.24	3,192.35	3,272.77
Bothwell	46.90	182.5	1,641.96	2,521.39	2,527.40
Bowmanville	37.50	3,480.5	31,314.29	36,441.47	31,203.80
Bradford	41.50	549.5	4,943.89	6,950.03	5,503.12
Braeside	36.10	214.3	1,928.07	2,052.08	1,769.78
Brampton	34.80	3,964.6	35,669.77	30,460.48	35,659.16
Brantford	34.80	23,466.1	211,126.06	191,920.36	215,132.59
Brantford Twp	35.50	3,212.2	28,900.38	27,296.22	29,963.45

SYSTEM

Statement No. 15

AND BALANCE CREDITED OR CHARGED TO MUNICIPALITIES

Ended December 31, 1950

costs and fixed charges			Excess of cost over revenue for power sold to companies	Total cost of power for 14-month period	Amount billed at interim rates	Balance credited or charged
Provision for renewals	Provision for contingencies and obsolescence and frequency standard- ization	Provision for sinking fund				
			Debit			
\$	\$	\$	\$	\$	\$	\$
5,645.29	14,851.38	6,013.96	248.54	89,238.14	95,478.42	6,240.28
1,578.80	3,437.32	1,577.66	56.65	22,529.30	23,326.03	796.73
587.51	1,220.76	579.04	20.04	8,719.93	8,932.71	212.78
1,951.36	3,513.14	1,582.60	59.00	23,266.37	26,714.85	3,448.48
2,041.30	4,501.03	1,792.04	77.28	29,717.36	32,300.00	2,582.64
1,621.33	3,859.18	1,507.50	65.07	24,676.36	26,332.31	1,655.95
725.80	1,119.99	672.42	17.44	8,797.60	9,320.74	523.14
4,851.37	10,787.83	4,976.31	175.78	69,969.35	75,990.24	6,020.89
1,699.75	4,007.38	1,735.80	66.28	26,142.63	26,818.53	675.90
145.50	334.36	130.08	5.68	2,198.34	2,534.59	336.25
438.90	888.10	440.69	14.19	6,325.42	7,587.65	1,262.23
3,715.47	11,524.07	3,855.08	200.39	65,212.41	71,439.76	6,227.35
1,226.67	1,973.24	949.94	32.76	15,933.88	17,519.58	1,585.70
339.34	1,004.16	342.51	17.39	7,672.89	8,001.17	328.28
4,045.83	11,688.14	4,482.99	197.61	67,988.70	74,499.77	6,511.07
4,250.09	10,211.60	4,382.40	168.42	64,189.83	68,154.29	3,964.46
998.51	2,315.54	1,016.19	38.13	15,181.19	16,754.57	1,573.38
1,631.04	4,472.37	1,769.99	75.20	26,519.78	28,888.73	2,368.95
2,266.24	580.63	1,238.95	4.86	2,597.37	2,597.37	
9,814.40	37,051.23	11,260.41	654.38	206,686.14	219,882.99	13,196.85
405.17	525.19	288.35	7.97	4,263.84	4,263.84	
166.73	517.22	172.13	8.96	3,266.14	4,734.73	1,468.59
2,260.30	5,576.11	2,350.56	92.34	34,868.84	36,134.95	1,266.11
1,465.15	4,607.90	1,639.54	79.26	27,673.78	28,825.68	1,151.90
1,146.02	2,699.94	1,031.36	46.11	18,094.26	18,988.07	893.81
724.54	1,041.02	541.07	17.20	8,181.73	9,195.43	1,013.70
1,086.37	2,306.61	1,096.71	37.39	15,454.82	16,928.22	1,473.40
14,856.90	59,240.45	17,665.21	1,045.99	316,920.79	343,972.34	27,051.55
2,383.31	5,173.10	2,386.25	84.32	34,028.00	35,846.65	1,818.65
536.59	1,281.44	488.27	21.87	9,875.16	10,349.15	473.99
947.40	2,021.26	944.27	33.13	13,472.74	15,677.16	2,204.42
697.98	1,427.27	602.15	24.14	12,908.18	12,908.18	
846.03	2,013.55	872.17	33.47	12,874.58	14,467.91	1,593.33
712.09	1,301.71	675.07	20.78	9,400.40	9,985.80	585.40
8,478.79	23,116.18	8,292.03	396.37	139,242.93	152,271.86	13,028.93
1,672.45	3,658.63	1,461.39	62.58	24,252.09	26,603.56	2,351.47
452.50	1,403.50	469.51	24.41	8,099.85	9,027.07	927.22
8,230.93	26,363.59	9,450.52	451.50	146,285.95	160,964.50	14,678.55
49,834.21	156,714.21	57,078.77	2,672.39	884,478.59	952,723.95	68,245.36
7,022.95	21,496.20	7,954.64	365.82	122,999.66	133,040.08	10,040.42

SOUTHERN ONTARIO

COST OF POWER, AMOUNT BILLED AT INTERIM RATES,

For the Fourteen-Month Period

Municipality	Interim rate per kilowatt	Average load supplied in 14-month period after correction for power factor	Share of operating		
		kilowatts	Cost of power purchased	Operating maintenance and administrative expenses	Interest
	\$		\$	\$	\$
Brechin.....	48.20	55.7	501.14	1,060.40	534.52
Bridgeport.....	40.80	296.1	2,664.03	3,225.98	2,984.39
Brigden.....	50.20	141.2	1,270.39	2,029.39	2,144.57
Brighton.....	38.20	675.9	6,081.12	7,197.03	6,079.35
Brockville.....	34.10	7,499.0	67,469.00	65,852.35	61,825.62
Brussels.....	46.20	305.7	2,750.40	4,114.92	3,691.59
Burford.....	38.80	389.4	3,503.46	3,978.84	4,021.91
Burgessville.....	44.20	97.1	873.62	1,295.09	1,058.96
Burks Falls.....	52.20	119.0	1,070.65	1,136.73	815.28
Burlington.....	36.10	2,349.0	21,134.11	20,654.49	20,998.28
Caledonia.....	38.80	468.6	4,216.03	5,026.66	4,816.98
Campbellville.....	48.20	70.9	637.89	1,086.29	759.91
Cannington.....	40.20	301.3	2,710.82	4,020.36	2,891.40
Cardinal.....	37.50	465.4	4,187.23	4,507.03	4,266.45
Carleton Place.....	34.80	2,147.6	19,322.10	22,077.01	18,681.98
Cayuga.....	46.20	227.5	2,046.83	3,435.26	2,931.23
Chatham.....	36.10	9,603.8	86,406.02	85,289.71	95,277.17
Chatsworth.....	42.90	162.0	1,457.52	2,011.72	1,602.31
Chesley.....	38.20	837.0	7,530.54	9,396.42	7,429.92
Chesterville.....	38.20	576.2	5,184.11	5,404.84	5,414.01
Chippawa.....	30.80	435.4	3,917.32	2,991.03	2,891.74
Clifford.....	49.60	176.9	1,591.58	2,586.06	2,300.27
Clinton.....	40.20	1,048.3	9,431.62	10,863.90	11,740.35
Cobden.....	50.90	246.9	2,221.38	2,479.17	2,402.23
Cobourg.....	38.20	3,462.2	31,149.34	37,483.42	30,995.86
Colborne.....	39.50	360.5	3,243.44	3,935.39	3,326.99
Coldwater.....	37.50	147.7	1,328.87	1,870.60	1,270.07
Collingwood.....	35.50	3,109.8	27,979.08	32,763.89	25,762.49
Comber.....	47.50	184.3	1,658.16	2,956.70	2,171.73
Cookstown.....	38.80	126.6	1,139.03	1,601.98	1,173.99
Cottam.....	46.20	124.1	1,116.54	1,763.84	1,472.65
Courtright.....	52.20	74.3	668.48	1,423.03	994.22
Creemore.....	42.20	201.9	1,816.51	2,795.09	1,661.71
Dashwood.....	45.50	161.7	1,454.83	2,632.75	2,203.78
Delaware.....	38.80	127.2	1,144.43	1,347.42	1,315.77
Delhi.....	40.20	842.3	7,578.23	9,192.22	9,220.06
Deseronto.....	45.50	388.4	3,494.46	5,154.14	4,187.64
Dorchester.....	40.20	149.1	1,341.46	1,999.78	1,542.34
Drayton.....	52.20	186.2	1,675.25	3,108.69	2,421.19
Dresden.....	44.90	607.8	5,468.42	7,784.13	8,197.67

SYSTEM

Statement No. 15

AND BALANCE CREDITED OR CHARGED TO MUNICIPALITIES

Ended December 31, 1950

costs and fixed charges			Excess of cost over revenue for power sold to companies	Total cost of power for 14-month period	Amount billed at interim rates	Balance credited or charged
Provision for renewals	Provision for contingencies and obsolescence and frequency standard- ization	Provision for sinking fund				
			Debit			
\$	\$	\$	\$	\$	\$	\$
157.65	371.41	141.87	6.34	2,773.33	3,131.40	358.07
731.41	2,005.56	793.72	33.72	12,438.81	14,096.74	1,657.93
605.76	1,021.25	575.45	16.08	7,662.89	8,269.61	606.72
1,655.99	4,491.44	1,615.25	76.97	27,197.15	30,123.23	2,926.08
15,904.79	48,939.70	16,415.68	854.01	277,261.15	298,335.80	21,074.65
985.72	2,120.81	985.38	34.81	14,683.63	16,477.19	1,793.56
1,002.31	2,651.00	1,070.27	44.35	16,272.14	17,626.20	1,354.06
270.69	667.78	281.50	11.06	4,458.70	5,009.69	550.99
169.29	759.68	214.92	13.55	4,180.10	7,247.95	3,067.85
4,803.78	15,591.72	5,560.18	267.52	89,010.08	98,931.73	9,921.65
1,201.31	3,193.03	1,280.20	53.37	19,787.58	21,211.95	1,424.37
194.09	485.14	201.94	8.07	3,373.33	3,984.51	611.18
852.80	2,009.13	767.47	34.31	13,286.29	14,129.26	842.97
1,208.03	3,105.08	1,134.80	53.00	18,461.62	20,362.48	1,900.86
4,955.69	14,229.01	4,969.94	244.58	84,480.31	87,192.56	2,712.25
812.34	1,600.73	782.36	25.91	11,634.66	12,260.30	625.64
22,815.54	64,992.25	25,339.42	1,093.71	381,213.82	404,481.52	23,267.70
482.69	1,080.41	425.62	18.45	7,078.72	8,107.37	1,028.65
2,026.69	5,532.65	1,969.22	95.32	33,980.76	37,300.70	3,319.94
1,564.22	3,834.21	1,441.07	65.62	22,908.08	25,678.02	2,769.94
552.29	2,780.08	761.62	49.58	13,943.66	15,645.64	1,701.98
626.94	1,250.32	614.99	20.15	8,990.31	10,234.96	1,244.65
3,024.46	7,204.76	3,129.30	119.38	45,513.77	49,165.93	3,652.16
706.58	1,658.19	639.64	28.12	10,135.31	14,662.56	4,527.25
8,515.95	23,035.42	8,234.61	394.29	139,809.19	152,698.10	12,888.91
943.86	2,391.50	884.65	41.05	14,766.88	16,612.03	1,845.15
342.19	969.95	336.29	16.82	6,134.79	6,460.60	325.81
6,702.36	20,271.40	6,815.91	354.15	120,649.28	128,796.06	8,146.78
570.83	1,279.05	578.74	20.99	9,236.20	10,133.96	897.76
337.20	837.95	311.36	14.42	5,415.93	5,729.78	313.85
380.01	865.80	393.05	14.13	6,006.02	6,690.49	684.47
266.89	528.71	266.41	8.46	4,156.20	4,526.58	370.38
429.41	1,318.74	439.50	22.99	8,483.95	9,941.26	1,457.31
621.27	1,146.08	589.21	18.41	8,666.33	8,585.83	80.50
326.84	865.24	349.85	14.49	5,364.04	5,760.18	396.14
2,357.40	5,767.08	2,458.15	95.92	36,669.06	39,504.52	2,835.46
1,330.30	2,633.82	1,116.61	44.23	17,961.20	20,618.31	2,657.71
383.12	1,014.21	410.09	16.98	6,707.98	6,990.73	282.75
659.90	1,316.07	647.32	21.21	9,849.63	11,336.95	1,487.32
2,289.93	4,335.50	2,189.56	69.22	30,334.43	31,840.44	1,506.01

SOUTHERN ONTARIO

COST OF POWER, AMOUNT BILLED AT INTERIM RATES,

For the Fourteen-Month Period

Municipality	Interim rate per kilowatt	Average load supplied in 14-month period after correction for power factor	Share of operating		
		kilowatts	Cost of power purchased	Operating maintenance and administrative expenses	Interest
	\$		\$	\$	\$
Drumbo.....	42.90	146.1	1,314.47	1,768.61	1,661.77
Dublin.....	48.20	77.3	695.47	1,169.36	980.91
Dundalk.....	40.80	302.1	2,718.01	3,651.31	2,838.17
Dundas.....	34.10	3,284.2	29,548.16	26,341.68	29,266.04
Dunnville.....	35.50	1,738.6	15,642.30	18,647.00	15,268.62
Durham.....	40.20	528.2	4,752.25	6,425.48	4,962.33
Dutton.....	42.20	247.3	2,224.97	2,854.89	2,953.36
East York Twp.....	34.10	16,550.1	148,902.35	132,203.30	151,924.98
Elmira.....	36.10	1,736.0	15,618.91	15,003.56	16,764.63
Elmvale.....	38.80	269.8	2,427.41	3,320.85	2,465.29
Elmwood.....	43.50	137.9	1,240.70	1,722.25	1,396.39
Elora.....	40.80	615.9	5,541.29	6,372.87	6,950.63
Embro.....	40.80	201.6	1,813.81	2,459.82	2,357.71
Erieau.....	46.90	216.3	1,946.07	4,084.11	2,681.72
Erie Beach.....	52.20	27.7	249.22	547.52	343.41
Erin.....	50.90	85.7	771.05	2,426.93	847.64
Essex.....	42.20	825.6	7,427.98	8,820.40	9,797.12
Etobicoke Twp.....	34.80	18,596.7	167,315.74	153,701.08	171,059.94
Exeter.....	39.50	1,116.8	10,047.92	13,510.48	12,609.44
Fergus.....	37.50	1,905.7	17,145.71	17,514.75	19,586.09
Finch.....	42.90	149.3	1,343.26	2,172.21	1,440.80
Flesherton.....	41.50	139.7	1,256.89	1,731.48	1,152.70
Fonthill.....	36.10	420.4	3,782.37	3,831.48	3,670.27
Forest.....	47.50	677.6	6,096.41	7,291.43	8,922.57
Forest Hill.....	33.50	7,402.5	66,600.78	55,617.12	64,899.00
Frankford.....	32.80	269.6	2,425.61	2,589.11	2,134.89
Galt.....	34.80	12,384.6	111,425.07	101,248.25	115,579.80
Georgetown.....	39.50	2,447.2	22,017.62	23,931.69	26,307.21
Glencoe.....	52.20	243.3	2,188.99	4,714.37	3,884.54
Goderich.....	42.20	2,128.7	19,152.05	24,780.23	25,705.94
Grand Valley.....	48.20	247.7	2,228.57	3,429.83	2,810.72
Granton.....	49.60	73.9	664.88	2,079.17	814.21
Gravenhurst.....	34.10	1,503.2	13,524.39	15,072.58	12,419.34
Grimsby.....	36.10	1,078.8	9,706.04	13,816.39	9,691.05
Guelph.....	34.80	14,163.5	127,429.95	115,396.00	131,099.38
Hagersville.....	39.50	1,076.8	9,688.04	11,654.68	12,238.03
Hamilton.....	32.10	159,868.9	1,438,351.08	1,210,762.04	1,367,571.37
Hanover.....	34.80	2,092.7	18,828.15	21,613.52	16,729.31
Harriston.....	45.50	663.3	5,967.75	8,156.66	8,625.02
Harrow.....	44.20	766.8	6,898.95	8,769.78	9,590.57

SYSTEM

Statement No. 15

AND BALANCE CREDITED OR CHARGED TO MUNICIPALITIES

Ended December 31, 1950

costs and fixed charges			Excess of cost over revenue for power sold to companies	Total cost of power for 14-month period	Amount billed at interim rates	Balance credited or charged
Provision for renewals	Provision for contingencies and obsolescence and frequency standard- ization	Provision for sinking fund				
			Debit			
\$	\$	\$	\$	\$	\$	\$
435.74	1,010.47	443.45	16.64	6,651.15	7,314.06	662.91
267.75	545.24	262.15	8.80	3,929.68	4,344.42	414.74
823.77	2,002.58	753.04	34.40	12,821.28	14,377.92	1,556.64
6,705.39	21,835.95	7,755.97	374.01	121,827.20	130,657.26	8,830.06
3,603.78	11,491.75	4,056.12	198.00	68,907.57	72,007.59	3,100.02
1,440.30	3,501.36	1,316.64	60.15	22,458.51	24,770.21	2,311.70
789.00	1,729.35	787.81	28.16	11,367.54	12,177.16	809.62
35,123.97	110,334.44	40,274.06	1,884.78	620,647.88	658,417.57	37,769.69
4,008.94	11,657.83	4,457.55	197.70	67,709.12	73,113.31	5,404.19
700.02	1,786.88	653.74	30.73	11,384.92	12,211.96	827.04
426.36	922.79	371.10	15.70	6,095.29	6,997.67	902.38
1,811.50	4,249.79	1,850.46	70.14	26,846.68	29,318.54	2,471.86
623.24	1,398.10	627.41	22.96	9,303.05	9,597.18	294.13
721.92	1,514.60	715.23	24.63	11,688.28	11,837.56	149.28
92.45	193.96	91.59	3.15	1,521.30	1,684.29	162.99
255.35	571.54	225.16	9.76	5,107.43	5,090.00	17.43
2,528.08	5,759.97	2,614.83	94.02	37,042.40	40,649.50	3,607.10
40,050.05	124,350.25	45,338.15	2,117.85	703,933.06	755,024.86	51,091.80
3,279.10	7,672.20	3,359.15	127.18	50,605.47	51,467.19	861.72
4,867.98	12,947.91	5,208.26	217.03	77,487.73	83,375.92	5,888.19
415.95	1,003.38	384.27	17.00	6,776.87	7,473.49	696.62
298.95	910.16	305.28	15.91	5,671.37	6,761.71	1,090.34
866.44	2,771.92	974.15	47.88	15,944.51	17,707.63	1,763.12
2,386.73	4,829.60	2,396.43	77.17	32,000.34	37,551.10	5,550.76
14,514.31	49,075.16	17,197.30	843.02	268,746.69	289,320.23	20,573.54
480.98	1,760.16	565.98	30.70	9,987.43	10,316.71	329.28
27,054.94	82,912.96	30,670.68	1,410.40	470,302.10	502,815.63	32,513.53
6,694.30	16,717.25	6,999.24	278.69	102,946.00	112,775.77	9,829.77
1,155.30	1,802.98	1,041.31	27.71	14,815.20	14,815.20	.....
6,863.92	14,767.99	6,861.55	242.42	98,374.10	104,805.10	6,431.00
924.56	1,682.46	748.61	28.21	11,852.96	13,928.17	2,075.21
209.17	507.86	216.80	8.42	4,500.51	4,275.92	224.59
3,216.25	9,795.88	3,282.27	171.19	57,481.90	59,803.70	2,321.80
2,319.33	7,165.20	2,575.18	122.86	45,396.05	45,433.63	37.58
30,607.44	94,914.74	34,796.98	1,612.98	535,857.47	575,039.55	39,182.08
3,212.28	7,433.02	3,258.92	122.63	47,607.60	49,621.53	2,013.93
304,536.04	1,057,434.90	362,139.30	18,206.36	5,759,001.09	5,987,092.36	228,091.27
4,068.76	13,632.76	4,421.28	238.32	79,532.10	84,962.75	5,430.65
2,350.76	4,688.18	2,305.94	75.53	32,169.84	35,211.69	3,041.85
2,537.42	5,387.50	2,561.56	87.33	35,833.11	39,540.21	3,707.10

SOUTHERN ONTARIO

COST OF POWER, AMOUNT BILLED AT INTERIM RATES,

For the Fourteen-Month Period

Municipality	Interim rate per kilowatt	Average load supplied in 14-month period after correction for power factor kilowatts	Share of operating		
			Cost of power purchased	Operating maintenance and administrative expenses	Interest
	\$		\$	\$	\$
Hastings.....	41.50	193.1	1,737.33	2,592.51	1,717.61
Havelock.....	42.90	264.4	2,378.82	4,131.35	2,352.05
Hensall.....	44.90	318.7	2,867.37	5,256.83	3,598.34
Hespeler.....	34.80	3,406.9	30,652.10	27,841.25	31,795.02
Highgate.....	46.90	100.5	904.21	1,127.41	1,184.23
Holstein.....	52.20	35.2	316.70	584.28	462.37
Humberstone.....	36.10	720.4	6,481.49	6,264.35	6,357.52
Huntsville.....	36.80	1,667.6	15,003.51	17,665.19	16,735.89
Ingersoll.....	36.10	3,690.1	33,200.07	33,780.76	36,309.20
Iroquois.....	34.80	381.4	3,431.48	3,342.59	3,025.77
Jarvis.....	45.50	199.5	1,794.91	2,839.01	2,570.46
Kemptville.....	39.50	609.6	5,484.61	6,068.73	6,189.05
Kincardine.....	41.50	1,125.1	10,122.60	14,056.97	11,128.17
Kingston.....	32.80	19,473.4	175,203.47	163,421.97	145,749.16
Kingsville.....	43.50	852.6	7,670.90	9,732.02	10,549.36
Kirkfield.....	52.20	39.1	351.79	638.80	665.13
Kitchener.....	34.10	31,383.2	282,356.73	247,952.08	283,330.77
Lakefield.....	37.50	684.6	6,159.39	7,013.68	6,090.02
Lambeth.....	41.50	249.2	2,242.07	2,841.51	2,539.07
Lanark.....	51.60	150.8	1,356.76	2,689.11	1,531.02
Lancaster.....	49.60	74.5	670.28	2,379.87	643.71
La Salle.....	46.20	474.2	4,266.41	5,539.57	6,179.97
Leamington.....	43.50	2,527.7	22,741.88	28,857.41	31,180.47
Lindsay.....	38.80	4,217.5	37,945.13	45,452.09	38,922.37
Listowel.....	40.80	1,681.1	15,124.97	17,434.99	19,506.98
London.....	34.80	41,595.8	374,240.18	347,213.13	383,763.13
London Twp.....	37.50	770.6	6,933.14	7,819.77	7,851.53
Long Branch.....	35.50	2,698.5	24,278.59	22,552.84	25,078.54
Lucan.....	39.50	324.3	2,917.75	3,739.34	3,573.03
Lucknow.....	44.90	415.7	3,740.08	6,223.96	4,111.61
Lynden.....	40.20	146.9	1,321.67	1,634.51	1,682.98
Madoc.....	42.20	463.6	4,171.04	5,653.87	4,632.15
Markdale.....	37.50	283.2	2,547.97	3,276.71	2,263.94
Markham.....	38.80	528.9	4,758.55	5,024.61	5,500.55
Marmora.....	43.50	197.0	1,772.42	2,612.58	1,968.36
Martintown.....	37.50	62.7	564.12	632.54	541.78
Maxville.....	43.50	180.5	1,623.97	1,930.32	1,988.00
Meaford.....	40.20	1,137.9	10,237.75	13,195.35	10,690.36
Merlin.....	44.20	133.9	1,204.71	1,723.85	1,742.49
Merrickville.....	39.20	118.0	1,061.65	1,035.67	830.88

SYSTEM

Statement No. 15

AND BALANCE CREDITED OR CHARGED TO MUNICIPALITIES

Ended December 31, 1950

costs and fixed charges			Excess of cost over revenue for power sold to companies	Total cost of power for 14-month period	Amount billed at interim rates	Balance credited or charged
Provision for renewals	Provision for contingencies and obsolescence and frequency standard- ization	Provision for sinking fund				
			Debit			
\$	\$	\$	\$	\$	\$	\$
462.33	1,279.88	456.27	21.99	8,267.92	9,348.20	1,080.28
633.09	1,752.49	624.80	30.11	11,902.71	13,233.91	1,331.20
935.75	2,189.40	958.59	36.29	15,842.57	16,692.32	849.75
7,442.58	22,808.66	8,437.24	387.99	129,364.84	138,319.56	8,954.72
311.27	697.48	315.58	11.45	4,551.63	5,500.57	948.94
163.70	241.89	123.41	4.01	1,896.36	2,141.50	245.14
1,486.50	4,800.43	1,688.88	82.04	27,161.21	30,342.33	3,181.12
5,085.28	11,086.47	4,440.13	189.91	70,206.38	71,596.86	1,390.48
8,781.60	24,936.03	9,644.30	420.24	147,072.20	155,415.31	8,343.11
747.44	2,482.49	802.27	43.44	13,875.48	15,483.97	1,608.49
712.36	1,403.72	686.07	22.72	10,029.25	10,591.26	562.01
1,882.63	4,115.45	1,648.24	69.42	25,458.13	28,092.07	2,633.94
3,352.31	7,503.46	2,955.96	128.13	49,247.60	54,474.95	5,227.35
33,676.13	125,886.37	38,599.63	2,217.69	684,754.42	745,183.74	60,429.32
2,776.96	5,976.96	2,817.02	97.10	39,620.32	43,269.07	3,648.75
260.20	282.45	178.34	4.45	2,381.16	2,381.16	
64,711.10	209,204.83	75,134.63	3,574.02	1,166,264.16	1,248,527.13	82,262.97
1,639.24	4,537.66	1,617.78	77.96	27,135.73	29,952.81	2,817.08
625.32	1,692.22	674.88	28.38	10,643.45	12,066.46	1,423.01
465.71	1,018.06	407.74	17.17	7,485.57	9,077.73	1,592.16
173.19	490.50	171.02	8.48	4,537.05	4,312.29	224.76
1,666.70	3,372.50	1,652.53	54.00	22,731.68	25,560.50	2,828.82
8,198.59	17,708.44	8,327.58	287.86	117,302.23	128,278.95	10,976.72
11,042.20	27,978.24	10,349.45	480.30	172,169.78	190,910.87	18,741.09
5,045.17	11,679.44	5,203.59	191.45	74,186.59	80,020.70	5,834.11
89,007.80	278,446.00	101,858.40	4,737.06	1,579,265.70	1,688,788.62	109,522.92
1,933.67	5,232.86	2,086.93	87.76	31,945.66	33,714.37	1,768.71
5,914.90	18,069.80	6,649.96	307.31	102,851.94	111,760.80	8,908.86
917.92	2,228.66	951.39	36.93	14,365.02	14,947.11	582.09
1,238.60	2,772.37	1,092.16	47.34	19,226.12	21,773.12	2,547.00
444.17	1,012.54	448.18	16.73	6,560.78	6,891.24	330.46
1,399.14	3,115.48	1,233.45	52.80	20,257.93	22,826.67	2,568.74
550.62	1,844.89	598.32	32.25	11,114.70	12,389.03	1,274.33
1,373.21	3,596.81	1,464.73	60.23	21,778.69	23,942.52	2,163.83
594.54	1,323.87	524.14	22.43	8,818.34	9,997.02	1,178.68
145.76	412.81	143.94	7.14	2,448.09	2,744.36	296.27
640.75	1,230.15	530.78	20.56	7,964.53	9,162.53	1,198.00
3,102.83	7,542.99	2,836.45	129.59	47,735.32	53,367.13	5,631.81
478.36	942.05	464.94	15.25	6,571.65	6,906.61	334.96
177.26	758.88	219.77	13.44	4,097.55	5,398.50	1,300.95

SOUTHERN ONTARIO

COST OF POWER, AMOUNT BILLED AT INTERIM RATES,

For the Fourteen-Month Period

Municipality	Interim rate per kilowatt	Average load supplied in 14-month period after correction for power factor	Share of operating		
		kilowatts	Cost of power purchased	Operating maintenance and administrative expenses	Interest
	\$		\$	\$	\$
Merritton.....	31.50	9,984.0	89,826.71	69,938.71	73,231.67
Midland.....	33.50	3,992.6	35,921.69	39,488.49	30,006.65
Mildmay.....	42.90	210.3	1,892.08	2,909.67	1,866.80
Millbrook.....	46.90	178.3	1,604.18	2,632.09	1,958.77
Milton.....	36.80	1,846.8	16,615.78	14,921.26	17,577.24
Milverton.....	42.20	518.9	4,668.58	5,572.55	6,236.89
Mimico.....	34.10	3,505.9	31,542.81	27,552.36	30,845.11
Mitchell.....	38.80	1,048.2	9,430.72	10,168.48	11,216.94
Moorefield.....	52.20	92.9	835.83	1,666.20	1,208.00
Morrisburg.....	35.50	575.9	5,181.41	5,435.88	4,865.01
Mount Brydges.....	42.90	128.8	1,158.82	1,685.68	1,419.07
Mount Forest.....	44.90	787.2	7,082.49	9,987.57	8,411.86
Napanee.....	36.80	1,776.7	15,985.09	18,267.77	14,937.30
Neustadt.....	43.50	103.1	927.60	1,223.78	867.34
Newboro.....	48.90	42.9	385.97	1,268.58	426.92
Newburgh.....	37.50	104.7	941.99	1,226.60	842.14
Newbury.....	49.60	68.0	611.80	1,166.36	880.17
Newcastle.....	38.20	386.5	3,477.37	4,103.69	3,476.28
New Hamburg.....	40.80	826.1	7,432.48	8,178.38	9,286.99
Newmarket.....	37.50	2,525.1	22,718.49	22,340.91	24,997.79
New Toronto.....	36.80	10,736.2	96,594.30	94,481.74	105,085.53
Niagara.....	32.80	1,007.2	9,061.85	8,422.56	7,532.48
Niagara Falls.....	28.40	11,326.9	101,908.86	67,208.54	67,145.57
North York Twp.....	35.50	25,774.9	231,898.48	209,370.90	237,811.57
Norwich.....	38.80	563.4	5,068.95	6,016.58	6,144.32
Norwood.....	37.50	255.1	2,295.15	2,742.76	2,269.19
Oakville.....	36.80	3,143.6	28,283.18	29,007.48	32,062.06
Oil Springs.....	48.20	163.1	1,467.42	1,811.28	2,147.55
Omeme.....	39.50	164.8	1,482.72	2,240.38	1,475.39
Orangeville.....	40.20	1,116.3	10,043.42	13,153.10	10,706.07
Orono.....	42.90	153.7	1,382.85	1,895.15	1,382.41
Oshawa.....	36.80	22,952.8	206,507.86	228,499.61	203,797.10
Ottawa.....	30.10	43,809.2	394,154.29	349,192.22	305,691.95
Otterville.....	41.50	179.0	1,610.47	2,567.45	1,952.13
Owen Sound.....	36.10	7,525.4	67,706.51	77,556.87	62,666.51
Paisley.....	43.50	229.3	2,063.03	3,080.01	2,413.11
Palmerston.....	43.50	629.4	5,662.75	7,364.88	7,807.15
Paris.....	34.80	2,137.2	19,228.53	17,806.24	19,593.53
Parkhill.....	45.50	386.9	3,480.96	5,416.59	4,769.86
Parry Sound.....	42.20	611.6	5,502.61	9,749.00	5,419.58

SYSTEM

Statement No. 15

AND BALANCE CREDITED OR CHARGED TO MUNICIPALITIES

Ended December 31, 1950

costs and fixed charges			Excess of cost over revenue for power sold to companies	Total cost of power for 14-month period	Amount billed at interim rates	Balance credited or charged
Provision for renewals	Provision for contin- gencies and obsolescence and frequency standard- ization	Provision for sinking fund				
			Debit			
\$	\$	\$	\$	\$	\$	\$
15,108.50	64,677.72	19,370.61	1,137.01	333,290.93	366,911.45	33,620.52
7,036.83	25,678.89	7,925.19	454.69	146,512.43	156,043.26	9,530.83
509.21	1,390.10	494.77	23.95	9,086.58	10,526.94	1,440.36
629.03	1,225.58	522.31	20.31	8,592.27	9,757.91	1,165.64
4,206.79	12,356.92	4,663.88	210.32	70,552.19	79,288.99	8,736.80
1,641.75	3,636.21	1,665.48	59.09	23,480.55	25,545.75	2,065.20
7,018.38	23,272.31	8,172.02	399.26	128,802.25	139,475.51	10,673.26
2,822.64	7,176.76	2,987.53	119.37	43,922.44	47,446.90	3,524.46
329.24	656.62	322.96	10.58	5,029.43	5,656.24	626.81
1,279.78	3,787.11	1,291.77	65.59	21,906.55	23,852.13	1,945.58
364.57	885.14	377.86	14.67	5,905.81	6,445.69	539.88
2,666.30	5,280.24	2,237.40	89.65	35,755.51	41,235.39	5,479.88
3,911.79	11,714.31	3,963.59	202.34	68,982.19	76,279.96	7,297.77
228.61	773.70	229.50	11.74	4,162.27	5,231.93	1,069.66
122.63	289.97	113.65	4.89	2,612.61	2,447.01	165.60
210.94	684.95	223.27	11.92	4,141.81	4,581.86	440.05
241.50	480.11	234.91	7.74	3,622.59	3,935.37	312.78
946.93	2,568.33	923.63	44.02	15,540.25	17,223.75	1,683.50
2,413.96	5,705.06	2,476.48	94.08	35,587.43	39,322.36	3,734.93
6,060.83	17,049.18	6,645.30	287.57	100,100.07	110,474.67	10,374.60
25,577.39	72,607.31	27,892.43	1,222.67	423,461.37	460,939.02	37,477.65
1,606.19	6,446.43	1,992.56	114.70	35,176.77	38,542.73	3,365.96
11,259.12	71,358.10	17,636.93	1,289.94	337,807.06	375,297.24	37,490.18
55,138.38	172,203.05	63,109.16	2,935.32	972,466.86	1,067,509.26	95,042.40
1,570.61	3,874.66	1,633.33	64.16	24,372.61	25,502.26	1,129.65
610.79	1,690.83	602.80	29.05	10,240.57	11,159.05	918.48
7,943.07	21,197.30	8,514.67	358.01	127,365.77	135,489.96	8,124.19
574.46	1,162.48	576.79	18.57	7,758.55	9,170.86	1,412.31
405.35	1,096.48	391.97	18.77	7,111.06	7,592.54	481.48
3,133.03	7,415.65	2,841.80	127.13	47,420.20	52,354.45	4,934.25
376.55	1,021.34	367.31	17.50	6,443.11	7,691.59	1,248.48
54,775.29	152,088.84	54,142.16	2,613.94	902,424.80	985,438.66	83,013.86
64,754.11	281,483.23	80,850.24	4,989.13	1,481,115.17	1,538,432.80	57,317.63
499.01	1,231.03	518.93	20.39	8,399.41	8,665.84	266.43
16,378.73	49,097.54	16,589.54	857.02	290,852.72	316,943.25	26,090.53
757.21	1,548.24	641.96	26.11	10,529.67	11,638.04	1,108.37
2,084.41	4,417.33	2,085.46	71.68	29,493.66	31,943.84	2,450.18
4,538.73	14,272.93	5,198.54	243.39	80,881.89	86,771.19	5,889.30
1,291.52	2,683.59	1,272.90	44.06	18,959.48	20,537.92	1,578.44
1,501.63	3,990.47	1,437.08	69.65	27,670.02	30,109.33	2,439.31

SOUTHERN ONTARIO

COST OF POWER, AMOUNT BILLED AT INTERIM RATES,

For the Fourteen-Month Period

Municipality	Interim rate per kilowatt	Average load supplied in 14-month period after correction for power factor	Share of operating		
		kilowatts	Cost of power purchased	Operating maintenance and administrative expenses	Interest
	\$		\$	\$	\$
Penetanguishene.....	35.50	1,213.4	10,917.04	13,294.24	10,109.83
Perth.....	34.80	2,154.6	19,385.08	19,374.65	18,160.84
Peterborough.....	32.80	19,791.2	178,062.74	168,929.62	149,779.85
Petrolia.....	44.90	1,029.6	9,263.37	11,575.23	13,283.91
Picton.....	38.80	1,891.0	17,013.45	20,404.10	17,368.19
Plattsville.....	46.20	251.1	2,259.16	3,467.23	3,062.36
Point Edward.....	45.50	2,132.8	19,188.94	18,179.81	27,329.90
Port Colborne.....	35.50	2,057.0	18,506.97	17,563.92	18,153.05
Port Credit.....	36.10	1,483.1	13,343.55	12,053.53	13,795.17
Port Dalhousie.....	34.10	1,019.3	9,170.71	9,526.26	8,406.34
Port Dover.....	41.50	722.7	6,502.18	8,360.46	8,190.68
Port Elgin.....	45.50	656.0	5,902.08	8,718.52	7,177.14
Port Hope.....	37.50	3,873.4	34,849.24	40,318.30	34,780.22
Port McNicoll.....	36.80	148.8	1,338.76	1,829.35	1,224.68
Port Perry.....	43.50	451.2	4,059.48	6,355.64	4,882.20
Port Rowan.....	50.90	159.3	1,433.23	2,498.23	2,046.88
Port Stanley.....	44.20	919.4	8,271.90	11,592.76	11,632.96
Prescott.....	36.10	1,394.6	12,547.31	12,713.92	12,050.10
Preston.....	34.80	4,620.4	41,570.04	37,202.69	42,316.10
Priceville.....	50.90	18.7	168.25	375.62	221.12
Princeton.....	48.20	144.1	1,296.48	2,086.08	1,639.03
Queenston.....	32.80	173.0	1,556.49	1,276.10	1,198.29
Renfrew.....	38.20	1,204.2	10,834.27	14,858.35	11,102.32
Richmond.....	50.90	125.6	1,130.03	4,185.99	998.17
Richmond Hill.....	36.80	821.1	7,387.49	7,133.66	7,984.11
Ridgetown.....	40.80	616.0	5,542.19	6,899.46	7,258.70
Ripley.....	52.20	141.2	1,270.39	2,859.07	1,396.58
Riverside.....	41.50	1,898.4	17,080.03	20,166.82	22,527.74
Rockwood.....	40.20	213.8	1,923.57	2,219.80	2,361.73
Rodney.....	47.50	209.3	1,883.09	3,257.15	2,637.97
Rosseau.....	52.20	43.2	388.67	1,227.51	455.60
Russell.....	44.90	116.7	1,049.96	3,517.90	1,126.22
St. Catharines.....	30.80	27,950.5	251,472.50	196,915.97	204,987.40
St. Clair Beach.....	45.50	129.9	1,168.72	1,693.92	1,541.50
St. George.....	41.50	216.5	1,947.86	2,876.10	2,112.82
St. Jacobs.....	36.10	362.8	3,264.14	3,250.06	3,536.16
St. Marys.....	40.20	2,048.5	18,430.49	20,632.97	23,752.12
St. Thomas.....	36.10	8,460.7	76,121.48	75,411.83	83,612.07
Sarnia.....	41.50	12,211.3	109,865.89	132,077.01	153,863.37
Scarborough Twp.....	36.10	12,289.7	110,571.24	111,617.24	121,034.65

SYSTEM

Statement No. 15

AND BALANCE CREDITED OR CHARGED TO MUNICIPALITIES

Ended December 31, 1950

costs and fixed charges			Excess of cost over revenue for power sold to companies	Total cost of power for 14-month period	Amount billed at interim rates	Balance credited or charged
Provision for renewals	Provision for contingencies and obsolescence and frequency standard- ization	Provision for sinking fund				
			Debit			
\$	\$	\$	\$	\$	\$	\$
2,642.83	7,916.53	2,674.04	138.19	47,692.70	50,254.98	2,562.28
4,760.26	14,180.92	4,819.50	245.37	80,926.62	87,477.63	6,551.01
35,043.47	128,125.15	39,686.93	2,253.88	701,881.64	757,344.35	55,462.71
3,509.07	7,296.96	3,558.81	117.26	48,604.61	53,932.33	5,327.72
4,910.96	12,534.59	4,619.31	215.35	77,065.95	85,601.20	8,535.25
829.95	1,742.38	819.07	28.60	12,208.75	13,532.34	1,323.59
7,195.84	15,101.97	7,320.70	242.89	94,560.05	113,215.38	18,655.33
4,244.52	13,706.94	4,822.38	234.26	77,232.04	85,195.24	7,963.20
3,250.79	9,935.45	3,655.96	168.90	56,203.35	62,463.49	6,260.14
1,899.95	6,711.68	2,228.54	116.08	38,059.56	40,550.56	2,491.00
2,132.01	4,974.49	2,185.88	82.30	32,428.00	34,988.27	2,560.27
2,305.82	4,416.93	1,909.94	74.71	30,505.14	34,820.38	4,315.24
9,461.78	25,732.13	9,241.71	441.11	154,824.49	169,461.84	14,637.35
316.47	971.90	323.91	16.95	6,022.02	6,387.57	365.55
1,562.09	3,037.11	1,299.36	51.38	21,247.26	22,899.11	1,651.85
564.10	1,126.53	547.91	18.14	8,235.02	9,457.20	1,222.18
3,191.02	6,476.62	3,109.72	104.70	44,379.68	47,410.75	3,031.07
3,242.01	9,181.83	3,201.48	158.82	53,095.47	58,735.56	5,640.09
9,784.00	30,877.99	11,225.19	526.19	173,502.20	187,587.95	14,085.75
74.49	130.55	59.00	2.13	1,031.16	1,110.48	79.32
429.77	996.64	437.38	16.41	6,901.79	8,104.41	1,202.62
238.56	1,107.96	316.02	19.70	5,713.12	6,621.23	908.11
3,128.39	8,007.95	2,952.42	137.14	51,020.84	53,666.23	2,645.39
248.99	818.20	264.60	14.30	7,660.28	7,455.57	204.71
1,914.49	5,530.85	2,121.35	93.51	32,165.46	35,250.72	3,085.26
1,907.90	4,275.07	1,934.37	70.15	27,887.84	29,319.56	1,431.72
420.71	941.68	370.97	16.08	7,275.48	8,596.46	1,320.98
5,813.11	13,244.60	6,012.59	216.20	85,061.09	91,912.45	6,851.36
609.10	1,468.85	628.51	24.35	9,235.91	10,028.84	792.93
721.40	1,475.57	704.39	23.84	10,703.41	11,598.29	894.88
143.04	292.74	120.98	4.92	2,633.46	2,633.46	.....
325.13	784.29	300.36	13.29	7,117.15	6,114.61	1,002.54
42,274.04	181,059.98	54,221.15	3,183.09	934,114.13	1,004,352.07	70,237.94
397.77	906.28	411.42	14.79	6,134.40	6,894.75	760.35
509.02	1,464.08	561.18	24.66	9,495.72	10,481.50	985.78
849.54	2,440.23	939.81	41.32	14,321.26	15,278.10	956.84
6,136.18	14,297.54	6,340.96	233.30	89,823.56	96,072.96	6,249.40
20,268.76	57,359.47	22,231.37	963.53	335,968.51	356,337.08	20,368.57
40,108.35	86,018.10	41,148.42	1,390.66	564,471.80	591,231.12	26,759.32
29,254.01	82,817.56	32,133.07	1,399.59	488,827.36	517,600.88	28,773.52

SOUTHERN ONTARIO

COST OF POWER, AMOUNT BILLED AT INTERIM RATES,

For the Fourteen-Month Period

Municipality	Interim rate per kilowatt	Average load supplied in 14-month period after correction for power factor	Share of operating		
		kilowatts	Cost of power purchased	Operating maintenance and administrative expenses	Interest
	\$		\$	\$	\$
Seaforth.....	38.80	1,153.5	10,378.12	11,170.25	12,343.79
Shelburne.....	40.80	427.8	3,848.94	5,303.12	4,102.90
Simcoe.....	36.10	2,962.4	26,652.91	25,797.38	28,478.27
Smiths Falls.....	33.50	3,901.8	35,104.75	33,494.74	30,685.11
Smithville.....	38.20	414.6	3,730.18	5,530.54	3,987.75
Southampton.....	44.90	678.4	6,103.61	8,829.24	7,249.24
Springfield.....	47.50	109.1	981.58	1,431.45	1,213.66
Stamford Twp.....	28.40	4,709.3	42,369.88	28,034.25	27,916.59
Stayner.....	38.20	409.0	3,679.80	4,772.06	3,597.15
Stirling.....	32.80	461.4	4,151.25	3,949.89	3,453.29
Stoney Creek.....	35.50	638.0	5,740.13	6,826.79	6,414.21
Stouffville.....	39.50	602.1	5,417.13	5,938.51	6,261.84
Stratford.....	36.80	8,135.4	73,194.73	71,022.44	81,382.78
Strathroy.....	37.50	1,723.2	15,503.74	17,542.66	17,670.63
Streetsville.....	37.50	709.2	6,380.72	5,929.44	6,992.00
Sunderland.....	41.50	204.0	1,835.40	3,023.57	1,903.02
Sutton.....	46.20	459.9	4,137.75	5,502.02	5,857.75
Swansea.....	37.50	3,120.2	28,072.65	33,978.96	28,259.90
Tara.....	44.90	179.0	1,610.47	2,508.07	1,883.77
Tavistock.....	39.50	681.5	6,131.50	6,851.36	7,537.30
Tecumseh.....	42.90	654.9	5,892.18	7,804.53	7,771.49
Teeswater.....	44.90	263.7	2,372.53	3,741.51	2,843.24
Thamesford.....	40.20	290.5	2,613.65	3,647.92	3,368.80
Thamesville.....	42.20	332.8	2,994.22	3,937.06	4,126.08
Thedford.....	52.20	196.5	1,767.92	2,381.69	2,587.50
Thornbury.....	48.20	200.0	1,799.41	3,557.61	1,978.16
Thorndale.....	44.20	135.9	1,222.70	1,700.05	1,405.84
Thornton.....	49.60	54.3	488.54	1,400.83	647.84
Thorold.....	32.10	3,358.3	30,214.85	24,232.71	25,226.05
Tilbury.....	40.80	1,119.6	10,073.12	12,310.18	13,192.93
Tillsonburg.....	36.80	2,179.8	19,611.80	22,293.71	21,924.82
Toronto.....	33.10	362,800.9	3,264,143.73	2,791,516.25	3,195,464.88
Toronto Twp.....	36.10	7,372.5	66,330.88	62,527.15	70,232.54
Tottenham.....	52.20	154.8	1,392.75	2,677.30	2,179.22
Trafalgar Twp.....	39.50	1,168.4	10,512.17	12,113.95	11,575.82
Trenton.....	31.50	6,247.8	56,211.87	49,752.56	44,429.15
Tweed.....	46.20	541.0	4,867.41	7,173.53	5,998.26
Uxbridge.....	44.90	555.1	4,994.27	7,999.98	6,216.81
Victoria Harbour.....	42.90	126.5	1,138.13	1,897.91	1,266.87
Walkerton.....	34.80	1,364.8	12,279.20	14,098.42	10,910.36

SYSTEM

Statement No. 15

AND BALANCE CREDITED OR CHARGED TO MUNICIPALITIES

Ended December 31, 1950

costs and fixed charges			Excess of cost over revenue for power sold to companies	Total cost of power for 14-month period	Amount billed at interim rates	Balance credited or charged
Provision for renewals	Provision for contingencies and obsolescence and frequency standard- ization	Provision for sinking fund				
			Debit			
\$	\$	\$	\$	\$	\$	\$
3,106.21	7,897.73	3,287.66	131.36	48,315.12	52,215.12	3,900.00
1,200.67	2,841.90	1,089.07	48.72	18,435.32	20,361.24	1,925.92
6,755.72	19,906.71	7,567.59	337.37	115,495.95	124,767.29	9,271.34
7,502.42	25,475.82	8,132.91	444.35	140,840.10	152,495.61	11,655.51
993.81	2,767.31	1,061.58	47.22	18,118.39	18,478.28	359.89
2,297.78	4,550.45	1,928.16	77.26	31,035.74	35,534.96	4,499.22
313.54	753.31	323.30	12.42	5,029.26	6,045.15	1,015.89
4,681.11	29,668.02	7,332.77	536.31	140,538.93	156,035.51	15,496.58
989.40	2,702.00	953.26	46.58	16,740.25	18,226.48	1,486.23
797.90	2,982.73	914.56	52.55	16,302.17	17,655.95	1,353.78
1,583.08	4,321.20	1,703.60	72.66	26,661.67	26,425.28	236.39
1,563.27	4,094.61	1,667.46	68.57	25,011.39	27,746.76	2,735.37
19,714.89	55,229.78	21,648.02	926.48	323,119.12	349,279.83	26,160.71
4,372.21	11,703.02	4,700.57	196.24	71,689.07	75,388.42	3,699.35
1,707.46	4,786.55	1,855.66	80.77	27,732.60	31,026.54	3,293.94
549.26	1,351.87	504.81	23.23	9,191.16	9,877.32	686.16
1,615.85	3,212.14	1,569.70	52.37	21,947.58	24,787.43	2,839.85
6,523.96	20,810.58	7,492.79	355.34	125,494.18	136,511.54	11,017.36
591.10	1,208.61	501.13	20.39	8,323.54	9,374.36	1,050.82
1,928.91	4,699.00	2,008.17	77.61	29,233.85	31,405.77	2,171.92
2,005.37	4,569.05	2,074.19	74.58	30,191.39	32,777.02	2,585.63
906.38	1,790.46	756.87	30.03	12,441.02	13,812.71	1,371.69
887.40	2,006.57	897.95	33.08	13,455.37	13,624.42	169.05
1,110.75	2,330.37	1,100.46	37.90	15,636.84	16,385.52	748.68
692.14	1,400.56	694.96	22.38	9,547.15	11,965.52	2,418.37
595.91	1,333.82	525.45	22.78	9,813.14	11,249.49	1,436.35
349.22	924.42	373.81	15.48	5,991.52	7,008.28	1,016.76
218.93	371.90	172.65	6.18	3,306.87	3,143.40	163.47
5,311.81	21,842.55	6,676.90	382.45	113,887.32	125,768.33	11,881.01
3,467.68	7,770.09	3,515.78	127.50	50,457.28	53,290.58	2,833.30
5,370.71	14,729.69	5,826.30	248.24	90,005.27	93,584.54	3,579.27
718,253.71	2,409,340.72	846,565.98	41,316.88	13,266,602.15	14,010,159.73	743,557.58
16,808.46	49,606.32	18,626.47	839.60	284,971.42	310,505.11	25,533.69
793.96	1,070.85	581.66	17.63	8,713.37	9,428.16	714.79
2,824.11	7,834.48	3,072.49	133.06	48,066.08	53,843.41	5,777.33
9,601.20	40,214.38	11,750.61	711.52	212,671.29	229,606.90	16,935.61
1,938.77	3,651.34	1,600.54	61.61	25,291.46	29,161.02	3,869.56
2,030.37	3,746.20	1,655.73	63.22	26,706.58	29,078.74	2,372.16
385.01	842.25	336.42	14.41	5,881.00	6,333.09	452.09
2,653.53	8,890.89	2,883.44	155.43	51,871.27	55,409.14	3,537.87

SOUTHERN ONTARIO

COST OF POWER, AMOUNT BILLED AT INTERIM RATES,
For the Fourteen-Month Period

Municipality	Interim rate per kilowatt	Average load supplied in 14-month period after correction for power factor kilowatts	Share of operating		
			Cost of power purchased	Operating maintenance and administrative expenses	Interest
	\$		\$	\$	\$
Wallaceburg.....	38.80	6,400.2	57,583.02	64,545.11	71,318.53
Wardsville.....	50.90	101.0	908.70	1,895.93	1,307.30
Warkworth.....	48.20	120.0	1,079.65	2,124.92	1,132.30
Waterdown.....	37.50	459.2	4,131.45	4,937.59	4,616.63
Waterford.....	37.50	535.7	4,819.73	5,039.07	5,379.74
Waterloo.....	34.80	7,068.6	63,596.66	56,672.98	64,450.24
Watford.....	46.20	524.9	4,722.56	6,518.78	7,378.60
Waubaushene.....	36.80	168.9	1,519.60	2,049.94	1,390.14
Welland.....	30.80	10,495.3	94,426.91	73,810.14	76,503.55
Wellesley.....	42.20	188.0	1,691.45	2,001.26	2,218.58
Wellington.....	38.80	345.0	3,103.99	3,892.00	3,183.92
West Lorne.....	43.50	583.9	5,253.39	7,132.42	7,359.35
Weston.....	34.10	5,422.9	48,790.19	41,389.12	48,060.76
Westport.....	48.20	170.5	1,534.00	4,171.23	1,696.74
Wheatley.....	50.20	364.2	3,276.73	6,807.73	4,555.10
Whitby.....	36.10	1,979.7	17,811.49	19,280.85	17,221.66
Wiarton.....	47.50	587.3	5,283.98	8,136.21	6,797.88
Williamsburg.....	36.80	115.3	1,037.36	1,089.17	996.24
Winchester.....	37.50	597.4	5,374.85	6,556.71	5,765.27
Windermere.....	52.20	68.2	613.60	1,935.94	719.25
Windsor.....	37.50	53,113.1	477,862.08	491,685.77	568,796.94
Wingham.....	42.20	1,152.6	10,370.02	14,539.24	11,671.25
Woodbridge.....	37.50	1,412.8	12,711.06	12,606.93	13,986.34
Woodstock.....	34.80	9,040.8	81,340.68	75,157.15	83,981.72
Woodville.....	46.90	80.9	727.86	1,456.85	785.30
Wyoming.....	49.60	139.2	1,252.39	2,279.35	1,862.67
York Twp.....	33.50	27,794.2	250,066.26	208,697.74	242,112.51
Zurich.....	49.60	190.7	1,715.74	3,477.20	2,648.75
Ontario Central Reformatory.....	36.10	278.6	2,506.58	2,333.37	2,733.82
Total—Municipalities.....		1,313,964.4	11,821,824.76	11,033,385.14	11,771,480.80
Total—Rural Power District.....		198,003.0	1,798,744.88	2,040,774.85	2,092,161.01
Total—Companies.....		443,050.9	3,986,158.28	3,478,976.31	3,638,183.34
Total—Local distribution systems.....		1,293.4	11,636.81	43,554.62	21,839.90
Grand Total.....		1,956,311.7	17,618,364.73	16,596,690.92	17,523,665.05

Contingencies and obsolescence....
Frequency standardization.....

(1) Operating, maintenance, and administrative expenses have been credited with amounts totalling \$19,297.82 required to reduce the cost of power to certain municipalities to a maximum of \$52.20 per kilowatt.

SYSTEM

Statement No. 15

AND BALANCE CREDITED OR CHARGED TO MUNICIPALITIES

Ended December 31, 1950

costs and fixed charges			Excess of cost over revenue for power sold to companies	Total cost of power for 14-month period	Amount billed at interim rates	Balance credited or charged
Provision for renewals	Provision for contingencies and obsolescence and frequency standard- ization	Provision for sinking fund				
			Debit			
\$	\$	\$	\$	\$	\$	\$
18,229.51	44,015.04	18,992.08	728.87	275,412.16	287,040.50	11,628.34
358.70	713.10	348.90	11.50	5,544.13	5,997.70	453.57
327.62	808.35	301.09	13.67	5,787.60	6,746.77	959.17
1,139.42	3,110.16	1,226.17	52.30	19,213.72	20,090.91	877.19
1,309.71	3,632.17	1,430.30	61.01	21,671.73	23,435.90	1,764.17
14,824.40	47,171.26	17,097.91	804.99	264,618.44	286,986.90	22,368.46
2,021.42	3,755.03	1,977.52	59.78	26,433.69	28,289.76	1,856.07
359.23	1,103.18	367.67	19.23	6,808.99	7,252.68	443.69
15,697.06	67,940.43	20,232.61	1,195.24	349,805.94	377,129.32	27,323.38
591.24	1,301.50	593.00	21.41	8,418.44	9,257.96	839.52
903.27	2,288.67	846.60	39.29	14,257.74	15,616.36	1,358.62
2,012.54	4,116.54	1,965.10	66.50	27,905.84	29,635.05	1,729.21
10,835.08	36,002.52	12,740.31	617.58	198,435.56	215,741.89	17,306.33
487.40	1,152.46	451.72	19.42	9,512.97	9,589.37	76.40
1,205.16	2,558.85	1,216.63	41.48	19,661.68	21,330.39	1,668.71
4,550.78	13,048.93	4,574.60	225.45	76,713.76	83,377.45	6,663.69
2,256.05	3,984.26	1,810.89	66.88	28,336.15	32,545.81	4,209.66
268.03	759.12	264.69	13.13	4,427.74	4,949.91	522.17
1,664.37	4,014.87	1,537.61	68.03	24,981.71	26,136.52	1,154.81
225.83	462.14	190.99	7.77	4,155.52	4,155.52	.....
138,995.46	363,999.59	151,622.65	6,048.68	2,199,011.17	2,323,697.47	124,686.30
3,563.60	7,712.82	3,101.73	131.26	51,089.92	56,748.10	5,658.18
3,391.05	9,539.07	3,718.07	160.89	56,113.41	61,809.99	5,696.58
19,608.81	60,609.07	22,293.69	1,029.59	344,020.71	367,057.06	23,036.35
233.59	539.43	208.50	9.21	3,960.74	4,424.61	463.87
500.02	990.53	499.12	15.85	7,399.93	8,054.62	654.69
53,883.45	184,135.62	64,140.10	3,165.29	1,006,200.97	1,086,290.24	80,089.27
751.93	1,354.51	708.39	21.72	10,678.24	11,032.28	354.04
661.66	1,881.30	726.30	31.73	10,874.76	11,732.77	858.01
2,755,730.67	8,737,798.19	3,122,499.72	149,638.30	49,392,357.58	52,680,264.21	3,287,906.63
562,240.99	1,346,664.17	557,028.29	22,549.19	8,420,163.38	8,420,163.38	.....
832,125.47	2,910,494.70	965,114.28	184,221.92	15,626,830.46	15,626,830.46	.....
8,076.71	11,170.72	5,842.60	12,034.43	114,155.79	114,155.79	.....
4,158,173.84	13,006,127.78	4,650,484.89	.....	73,553,507.21	76,841,413.84	3,287,906.63
..... \$	6,021,968.98					
.....	6,984,158.80					
	\$ 13,006,127.78					

(2) The provision for frequency standardization included in the cost of power for the 14-month period was \$3.57 per kilowatt on all municipal, rural power district, and company loads.

THUNDER BAY

COST OF POWER, AMOUNT BILLED AT INTERIM RATES,

For the Fourteen-Month Period

Municipality	Interim rate per kilowatt	Average load supplied in 14-month period after correction for power factor kilowatts	Share of operating		
			Cost of power purchased	Operating maintenance and administrative expenses	Interest
	\$		\$	\$	\$
Fort William.....	31.50	23,506.3	5.90	203,784.18	329,113.65
Nipigon Twp.....	32.10	543.7	0.14	5,701.81	8,209.83
Port Arthur.....	31.50	23,771.0	5.96	212,085.51	332,819.73
Red Rock.....	32.10	324.9	0.08	3,920.90	4,269.77
Schreiber.....	52.20	323.6	0.08	4,929.15	5,781.83
Terrace Bay.....	52.20	679.1	0.17	7,282.20	10,041.97
Total—Municipalities.....		49,148.6	12.33	437,703.75	690,236.78
Total—Rural Power District.....		1,821.9	0.47	17,982.23	29,029.73
Total—Companies.....		88,895.8	22.32	649,807.40	1,179,911.09
Total—Rainy River District (N.O.P.).....		16,679.7	4.19	114,541.45	218,732.88
Total—Mining Area (mines).....		7,715.0	1.93	120,497.89	93,060.64
Total—Mining Area (townsites)...		915.7	0.23	42,144.28	11,299.37
Grand Total.....		165,176.7	41.47	1,382,677.00	2,222,270.49

SYSTEM

Statement No. 16

AND BALANCE CREDITED OR CHARGED TO MUNICIPALITIES

Ended December 31, 1950

costs and fixed charges				Excess of cost over revenue for power sold to companies	Total cost of power for 14-month period	Amount billed at interim rates	Balance credited or charged
Provision for renewals	Provision for contingencies and obsolescence	Provision for stabilization of rates	Provision for sinking fund				
				Debit			
\$	\$	\$	\$	\$	\$	\$	\$
70,961.40	62,245.71	.....	88,900.31	76,727.36	831,738.51	863,857.29	32,118.78
1,876.49	1,518.22	.....	2,217.43	1,774.70	21,298.62	20,363.15	935.47
71,760.48	62,946.66	.....	89,901.39	77,591.37	847,111.10	873,582.40	26,471.30
876.56	825.65	.....	1,153.24	1,060.51	12,106.71	12,167.23	60.52
1,468.94	1,020.98	.....	1,561.64	1,056.27	15,818.89	19,708.52	3,889.63
2,277.97	1,874.36	.....	2,712.27	2,216.66	26,405.60	41,358.03	14,952.43
149,221.84	130,431.58	.....	186,446.28	160,426.87	1,754,479.43	1,831,036.62	76,557.19
6,859.41	5,277.65	.....	7,841.36	5,946.90	72,937.75	72,937.75	.....
246,453.85	225,928.65	.....	320,458.33	166,373.77	2,456,207.87	2,456,207.87	.....
44,732.06	25,618.03	.....	59,078.47	.....	462,707.08	462,707.08	.....
30,250.74	10,906.28	42,267.41	35,035.19	.....	332,020.08	332,020.08	.....
6,972.08	1,359.62	41,208.92	6,021.75	.....	109,006.25	109,006.25	.....
484,489.98	399,521.81	83,476.33	614,881.38	.....	5,187,358.46	5,263,915.65	76,557.19

SOUTHERN ONTARIO SYSTEM

SINKING FUND PAYMENTS BY MUNICIPALITIES
AND INTEREST ALLOWED THEREON

(including proportionate shares of sinking funds provided out of other revenues of the system)

December 31, 1950

Municipality	Period of years to Dec. 31, 1950	Amount	Municipality	Period of years to Dec. 31, 1950	Amount
		\$			\$
Acton.....	33 years	162,134.07	Brechin.....	31 years	13,846.88
Agincourt.....	27 "	26,378.27	Bridgeport.....	23 "	16,586.96
Ailsa Craig.....	30 "	29,564.75	Brigden.....	28 "	23,316.14
Alexandria.....	26 "	59,192.94	Brighton.....	21 "	31,590.94
Alliston.....	27 "	53,457.53	Brockville.....	30 "	416,128.26
Almonte.....	6 "	8,840.63	Brussels.....	27 "	28,490.58
Alvinston.....	27 "	29,805.75	Burford.....	30 "	30,366.54
Amherstburg.....	27 "	124,249.28	Burgessville.....	29 "	11,037.26
Ancaster Twp.....	27 "	40,950.71	Burks Falls.....	1 "	291.41
Apple Hill.....	26 "	6,678.04	Burlington.....	6 "	30,205.55
Arkona.....	24 "	13,692.60	Caledonia.....	33 "	48,179.43
Arnprior.....	12 "	42,069.05	Campbellville.....	26 "	6,358.79
Arthur.....	29 "	38,970.51	Cannington.....	31 "	31,430.51
Athens.....	22 "	14,795.59	Cardinal.....	21 "	18,456.60
Aurora.....	8 "	34,931.39	Carleton Place.....	26 "	170,927.60
Aylmer.....	27 "	101,623.17	Cayuga.....	26 "	22,348.52
Ayr.....	31 "	32,485.18	Chatham.....	30 "	848,237.72
Baden.....	33 "	66,343.66	Chatsworth.....	30 "	10,447.63
Bancroft.....	1 "	1,266.40	Chesley.....	29 "	75,469.73
Barrie.....	32 "	355,392.33	Chesterville.....	31 "	52,374.11
Barry's Bay.....	1 "	333.34	Chippawa.....	29 "	35,425.87
Bath.....	19 "	5,655.15	Clifford.....	27 "	16,579.73
Beachville.....	33 "	86,919.03	Clinton.....	31 "	99,314.13
Beamsville.....	14 "	21,572.98	Cobden.....	15 "	7,984.12
Beaverton.....	31 "	41,237.39	Cobourg.....	19 "	137,483.00
Beeton.....	27 "	30,015.03	Colborne.....	18 "	14,078.96
Belle River.....	28 "	24,794.43	Coldwater.....	32 "	28,051.83
Belleville.....	22 "	444,751.97	Collingwood.....	32 "	286,183.48
Blenheim.....	30 "	80,293.45	Comber.....	30 "	35,052.51
Bloomfield.....	22 "	14,692.43	Cookstown.....	27 "	11,748.83
Blyth.....	27 "	22,029.71	Cottam.....	24 "	10,611.57
Bobcaygeon.....	5 "	3,479.39	Courtright.....	27 "	11,765.09
Bolton.....	30 "	35,844.39	Creemore.....	31 "	23,984.17
Bothwell.....	30 "	32,799.43	Dashwood.....	28 "	18,030.85
Bowmanville.....	19 "	173,555.59	Delaware.....	30 "	7,854.52
Bradford.....	27 "	39,704.52	Delhi.....	13 "	27,367.86
Braeside.....	6 "	3,320.31	Deseronto.....	30 "	19,647.81
Brampton.....	34 "	358,546.98	Dorchester.....	31 "	16,005.60
Brantford.....	31 "	2,019,026.96	Drayton.....	27 "	26,554.98
Brantford Twp.....	27 "	102,852.98	Dresden.....	30 "	68,676.05

Statement No. 17

SOUTHERN ONTARIO SYSTEM

SINKING FUND PAYMENTS BY MUNICIPALITIES
AND INTEREST ALLOWED THEREON

(including proportionate shares of sinking funds provided out of other revenues of the system)

December 31, 1950

Municipality	Period of years to Dec. 31, 1950	Amount	Municipality	Period of years to Dec. 31, 1950	Amount
		\$			\$
Drumbo.....	31 years	14,255.39	Hastings.....	20 years	10,375.20
Dublin.....	28 "	11,163.53	Havelock.....	22 "	25,100.66
Dundalk.....	30 "	27,264.23	Hensall.....	29 "	35,426.64
Dundas.....	34 "	300,145.48	Hespeler.....	34 "	263,464.07
Dunnville.....	28 "	139,034.07	Highgate.....	29 "	18,721.75
Durham.....	30 "	62,015.79	Holstein.....	29 "	5,369.13
Dutton.....	30 "	39,588.68	Humberstone.....	27 "	50,214.37
East York Twp.....	26 "	724,884.46	Huntsville.....	29 "	131,202.19
Elmira.....	32 "	161,725.35	Ingersoll.....	34 "	385,346.00
Elmvale.....	32 "	29,288.96	Iroquois.....	11 "	8,343.76
Elmwood.....	27 "	9,470.13	Jarvis.....	27 "	31,176.88
Elora.....	31 "	74,859.36	Kemptville.....	26 "	45,045.94
Embro.....	31 "	23,132.20	Kincardine.....	26 "	94,390.76
Erieau.....	27 "	16,922.19	Kingston.....	13 "	492,757.84
Erie Beach.....	26 "	3,593.35	Kingsville.....	27 "	88,612.53
Erin.....	1 "	280.25	Kirkfield.....	26 "	6,434.72
Essex.....	27 "	71,110.18	Kitchener.....	34 "	2,805,346.48
Etobicoke Twp.....	28 "	644,328.66	Lakefield.....	22 "	32,424.87
Exeter.....	29 "	93,590.71	Lambeth.....	30 "	20,598.73
Fergus.....	31 "	144,928.07	Lanark.....	26 "	14,038.72
Finch.....	23 "	10,667.42	Lancaster.....	26 "	11,961.92
Flesherton.....	30 "	13,035.40	La Salle.....	25 "	33,619.93
Fonthill.....	25 "	16,919.80	Leamington.....	27 "	208,682.28
Forest.....	28 "	75,581.84	Lindsay.....	22 "	250,927.23
Forest Hill.....	27 "	461,927.01	Listowel.....	29 "	172,392.31
Frankford.....	2 "	851.90	London.....	34 "	4,944,651.26
Galt.....	34 "	1,174,408.92	London Twp.....	26 "	50,300.62
Georgetown.....	32 "	229,327.88	Long Branch.....	20 "	88,606.49
Glencoe.....	27 "	42,163.31	Lucan.....	30 "	36,172.80
Goderich.....	31 "	257,014.68	Lucknow.....	26 "	44,921.08
Grand Valley.....	29 "	25,094.68	Lynden.....	30 "	24,579.17
Granton.....	29 "	15,535.52	Madoc.....	21 "	20,788.28
Gravenhurst.....	30 "	78,025.89	Markdale.....	29 "	22,026.04
Grimsby.....	9 "	24,559.13	Markham.....	27 "	43,073.70
Guelph.....	34 "	1,376,084.81	Marmora.....	22 "	13,509.98
Hagersville.....	32 "	151,939.90	Martintown.....	26 "	4,616.47
Hamilton.....	34 "	11,488,697.02	Maxville.....	26 "	19,391.32
Hanover.....	29 "	168,078.28	Meaford.....	26 "	72,567.18
Harriston.....	29 "	72,364.31	Merlin.....	27 "	22,141.86
Harrow.....	27 "	61,681.43	Merrickville.....	1 "	295.62

SOUTHERN ONTARIO SYSTEM

SINKING FUND PAYMENTS BY MUNICIPALITIES
AND INTEREST ALLOWED THEREON

(including proportionate shares of sinking funds provided out of other revenues of the system)

December 31, 1950

Municipality	Period of years to Dec. 31, 1950	Amount	Municipality	Period of years to Dec. 31, 1950	Amount
		\$			\$
Merritton.....	29 years	480,182.61	Penetanguishene....	34 years	128,978.27
Midland.....	32 "	445,440.41	Perth.....	26 "	153,892.51
Mildmay.....	18 "	10,453.99	Peterborough.....	22 "	845,723.11
Millbrook.....	12 "	5,091.47	Petrolia.....	29 "	196,665.10
Milton.....	32 "	201,731.33	Pictou.....	22 "	125,553.99
Milverton.....	29 "	80,947.97	Plattsville.....	31 "	20,682.03
Mimico.....	33 "	298,400.83	Point Edward.....	28 "	151,080.07
Mitchell.....	34 "	94,752.39	Port Colborne.....	29 "	207,247.95
Moorefield.....	27 "	12,872.34	Port Credit.....	33 "	92,569.45
Morrisburg.....	13 "	12,806.24	Port Dalhousie.....	29 "	82,937.10
Mount Brydges.....	30 "	15,599.59	Port Dover.....	27 "	59,508.45
Mount Forest.....	30 "	71,809.04	Port Elgin.....	20 "	37,425.31
Napanee.....	21 "	102,097.04	Port Hope.....	21 "	163,891.49
Neustadt.....	27 "	11,792.68	Port McNicoll.....	31 "	12,893.50
Newboro.....	2 "	320.34	Port Perry.....	26 "	39,268.68
Newburgh.....	2 "	377.91	Port Rowan.....	24 "	15,376.78
Newbury.....	27 "	8,814.10	Port Stanley.....	33 "	87,600.10
Newcastle.....	14 "	9,738.23	Prescott.....	31 "	110,435.06
New Hamburg.....	34 "	98,413.02	Preston.....	34 "	513,771.66
Newmarket.....	6 "	35,444.39	Priceville.....	26 "	1,992.53
New Toronto.....	31 "	1,018,384.22	Princeton.....	31 "	20,424.22
Niagara.....	27 "	70,186.85	Queenston.....	27 "	14,123.19
Niagara Falls.....	30 "	1,102,901.56	Renfrew.....	6 "	13,632.48
North York Twp....	27 "	601,157.65	Richmond.....	23 "	8,167.32
Norwich.....	33 "	71,744.89	Richmond Hill.....	26 "	48,298.08
Norwood.....	22 "	14,479.28	Ridgetown.....	30 "	85,643.74
Oakville.....	2 "	16,964.38	Ripley.....	26 "	17,171.79
Oil Springs.....	27 "	45,088.32	Riverside.....	28 "	173,588.80
Omeme.....	11 "	6,955.15	Rockwood.....	32 "	22,480.53
Orangeville.....	29 "	97,188.45	Rodney.....	28 "	27,664.73
Orono.....	12 "	4,643.50	Rosseau.....	20 "	8,384.60
Oshawa.....	22 "	1,309,480.99	Russell.....	25 "	12,090.90
Ottawa.....	35 "	810,495.05	St. Catharines.....	29 "	1,577,787.77
Otterville.....	29 "	18,353.49	St. Clair Beach.....	28 "	14,415.16
Owen Sound.....	30 "	505,755.88	St. George.....	30 "	27,990.69
Paisley.....	26 "	22,932.85	St. Jacobs.....	28 "	35,162.67
Palmerston.....	29 "	88,279.07	St. Marys.....	34 "	259,804.56
Paris.....	31 "	228,328.99	St. Thomas.....	34 "	992,145.64
Parkhill.....	27 "	40,369.34	Sarnia.....	29 "	1,289,228.06
Parry Sound.....	3 "	3,885.90	Scarborough Twp....	27 "	476,951.91

Statement No. 17

SOUTHERN ONTARIO SYSTEM

SINKING FUND PAYMENTS BY MUNICIPALITIES
AND INTEREST ALLOWED THEREON

(including proportionate shares of sinking funds provided out of other revenues of the system)

December 31, 1950

Municipality	Period of years to Dec. 31, 1950	Amount	Municipality	Period of years to Dec. 31, 1950	Amount
		\$			\$
Seaforth.....	34 years	123,970.50	Trenton.....	19 years	240,443.58
Shelburne.....	29 "	39,309.01	Tweed.....	20 "	26,877.24
Simcoe.....	30 "	245,458.69	Uxbridge.....	26 "	43,542.31
Smiths Falls.....	27 "	231,972.86	Victoria Harbor.....	31 "	13,049.26
Smithville.....	10 "	8,957.97	Walkerton.....	20 "	58,522.19
Southampton.....	20 "	35,960.57	Wallaceburg.....	30 "	439,470.90
Springfield.....	28 "	17,384.44	Wardsville.....	27 "	8,026.65
Stamford Twp.....	29 "	218,232.65	Warkworth.....	22 "	8,880.83
Stayner.....	32 "	35,241.34	Waterdown.....	34 "	43,131.50
Stirling.....	21 "	21,685.93	Waterford.....	30 "	64,000.81
Stoney Creek.....	4 "	5,514.66	Waterloo.....	34 "	571,152.77
Stouffville.....	27 "	39,383.81	Watford.....	28 "	52,264.19
Stratford.....	34 "	1,141,474.08	Waubauskene.....	31 "	10,515.48
Strathroy.....	31 "	183,483.80	Welland.....	28 "	709,810.00
Streetsville.....	16 "	14,920.73	Wellesley.....	29 "	30,001.90
Sunderland.....	31 "	20,114.64	Wellington.....	22 "	23,809.76
Sutton.....	27 "	39,236.60	West Lorne.....	29 "	51,085.75
Swansea.....	25 "	208,409.73	Weston.....	34 "	496,710.67
Tara.....	27 "	17,797.59	Westport.....	19 "	13,037.02
Tavistock.....	29 "	91,225.36	Wheatley.....	27 "	31,649.37
Tecumseh.....	28 "	57,092.78	Whitby.....	22 "	120,117.53
Teeswater.....	26 "	25,844.89	Wiarton.....	20 "	37,374.20
Thamesford.....	31 "	34,885.87	Williamsburg.....	30 "	12,425.62
Thamesville.....	30 "	35,192.11	Winchester.....	31 "	42,228.34
Thedford.....	27 "	20,810.21	Windermere.....	21 "	6,155.54
Thornbury.....	6 "	2,855.75	Windsor.....	31 "	6,205,182.25
Thorndale.....	31 "	17,059.33	Wingham.....	26 "	86,101.12
Thornton.....	27 "	6,853.23	Woodbridge.....	31 "	72,977.33
Thorold.....	28 "	226,756.46	Woodstock.....	34 "	851,043.91
Tilbury.....	30 "	109,771.63	Woodville.....	31 "	18,652.15
Tillsonburg.....	34 "	185,492.38	Wyoming.....	29 "	17,282.67
Toronto.....	34 "	38,253,711.66	York Twp.....	30 "	1,671,652.73
Toronto Twp.....	32 "	297,969.08	Zurich.....	28 "	26,553.44
Tottenham.....	27 "	21,939.65			
Trafalgar.....	14 "	32,511.17			
			Total—Municipalities.....		\$106,978,418.26
			Total—Rural Power District.....		12,718,245.78
			Grand Total.....		\$119,696,664.04

Statement No. 18

THUNDER BAY SYSTEM

**SINKING FUND PAYMENTS BY MUNICIPALITIES
AND INTEREST ALLOWED THEREON**

(including proportionate shares of sinking funds provided out of other revenues of
the system)

December 31, 1950

Municipality	Period of years to December 31, 1950	Amount
		\$
Fort William.....	24 years	2,171,444.07
Nipigon Twp.....	24 "	32,748.52
Port Arthur.....	24 "	4,770,960.37
Red Rock.....	3 "	7,588.15
Schreiber.....	2 "	6,132.49
Terrace Bay.....	3 "	15,244.84
Total—Municipalities.....		7,004,118.44
Total—Rural Power District.....		135,005.76
Total—Mining Area.....		12,992.33
Grand total.....		7,152,116.53

NORTHERN ONTARIO PROPERTIES

Statement No. 19

Held and operated by The Hydro-Electric Power Commission of Ontario
in trust for the Province of Ontario

FIXED ASSETS—Summary, December 31, 1950

Property	Under construction	In service		Total
		Non- depreciable	Depreciable	
	\$	\$	\$	\$
Abitibi District.....	156,224.65	6,360,548.86	23,884,673.96	30,401,447.47
Timiskaming District.....	595,932.26	1,295,332.10	15,959,097.45	17,850,361.81
Sudbury District.....	580,037.29	4,106,213.62	29,455,030.91	34,141,281.82
Nipissing District.....	89,415.32	214,225.80	1,639,895.74	1,943,536.86
Patricia District.....	1,995,163.84	39,864.19	7,922,984.63	9,958,012.66
Rainy River District.....	186,892.43	353,766.27	1,835,367.25	2,376,025.95
Communications.....	107,010.72		1,378,928.89	1,485,939.61
Office and Service Equipment.....			182,049.19	182,049.19
	3,710,676.51	12,369,950.84	82,258,028.02	98,338,655.37
Rural Power District.....	998,486.76	47,696.60	8,995,510.07	10,041,693.43
	4,709,163.27	12,417,647.44	91,253,538.09	108,380,348.80
Less grants in aid of construction—Province of Ontario for Rural Power District.....				4,725,546.86
				\$103,654,801.94

NORTHERN ONTARIO PROPERTIES

Statement No. 19A

Held and operated by The Hydro-Electric Power Commission of Ontario

in trust for the Province of Ontario

FIXED ASSETS—December 31, 1950

Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
ABITIBI DISTRICT:	\$	\$	\$	\$
Generating Stations:				
Abitibi River:				
Abitibi Canyon.....	17,200.81	5,530,862.63	13,525,250.14	19,073,313.58
Frederick House Dam.....	15,894.67	141,588.49	753,772.49	911,255.65
Desserat Lake Diversion.....		4,220.89	34,471.80	38,692.69
Watabeag Lake Dam.....		6,983.63	64,565.68	71,549.31
Coral and Otter Rapids.....	5,183.65			5,183.65
	38,279.13	5,683,655.64	14,378,060.11	20,099,994.88
Transformer Stations.....	106,838.20		3,223,471.46	3,330,309.66
Transmission Lines.....	11,107.32	676,893.22	6,157,037.47	6,845,038.01
Local Systems.....			126,104.92	126,104.92
	156,224.65	6,360,548.86	23,884,673.96	30,401,447.47
TIMISKAMING DISTRICT:				
Generating Stations:				
Matabitchuan River:				
Matabitchuan.....	25,988.95	3,240.00	703,685.04	732,913.99
Storage dams.....	14,234.40		134,545.12	148,779.52
Montreal River:				
Upper Notch.....	5,761.72	6,534.35	2,294,657.80	2,306,953.87
Fountain Falls.....	42,304.51		393,761.00	436,065.51
Ragged Chute.....			959,172.00	959,172.00
Hound Chute.....	8,729.06	3,240.00	613,444.00	625,413.06
Indian Chute.....	51,648.61		442,267.54	493,916.15
Storage dams.....	1,782.75		177,220.02	179,002.77
Mattagami River:				
Sandy Falls.....	1,141.20		850,329.53	851,470.73
Wawaitin.....	5,789.45		1,369,602.24	1,375,391.69
Lower Sturgeon.....	16,593.83	53,250.00	779,363.56	849,207.39
Storage dams.....	42,241.98	1,944.00	217,441.20	261,627.18
Intangible.....		991,913.26		991,913.26
	216,216.46	1,060,121.61	8,935,489.05	10,211,827.12
Transformer Stations.....	167,498.85		1,946,866.63	2,114,365.48
Transmission Lines.....	166,894.88	224,760.49	3,319,964.98	3,711,620.35
Office and Service Buildings.....	1,028.37	10,450.00	196,866.34	208,344.71
Local Systems.....	44,293.70		1,559,910.45	1,604,204.15
	595,932.26	1,295,332.10	15,959,097.45	17,850,361.81

NORTHERN ONTARIO PROPERTIES

Statement No. 19A

Held and operated by The Hydro-Electric Power Commission of Ontario
in trust for the Province of Ontario

FIXED ASSETS—December 31, 1950

Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
SUDBURY DISTRICT:	\$	\$	\$	\$
Generating Stations:				
Wanapitei River:				
Coniston.....	1,752.20	13,597.20	771,510.14	786,859.54
McVittie.....	2,424.55	13,323.00	393,696.61	409,444.16
Stinson.....		33,000.00	666,741.01	699,741.01
Storage dam.....		25.00	194,870.00	194,895.00
Intangible.....		830,514.53		830,514.53
Sturgeon River:				
Crystal Falls and Storage dams.....		44,531.27	1,244,748.05	1,289,279.32
Mississagi River:				
George W. Rayner.....		1,740,000.00	16,174,095.72	17,914,095.72
Rocky Island Storage Dam.....		1,000,000.00	2,152,490.61	3,152,490.61
Aubrey Falls.....	43,893.66			43,893.66
	48,070.41	3,674,991.00	21,598,152.14	25,321,213.55
Transformer Stations.....	470,029.22		4,058,720.77	4,528,749.99
Transmission Lines.....	61,937.66	431,222.62	3,798,158.00	4,291,318.28
	580,037.29	4,106,213.62	29,455,030.91	34,141,281.82
NIPISSING DISTRICT:				
Generating Stations:				
South River:				
Nipissing.....		12,089.60	242,280.91	254,370.51
Bingham Chute.....	4,593.90	12,105.05	271,976.55	288,675.50
Elliot Chute.....		119,307.09	334,834.33	454,141.42
Storage dams.....			76,122.70	76,122.70
Intangible.....		69,478.34		69,478.34
	4,593.90	212,980.08	925,214.49	1,142,788.47
Transformer Stations.....	33,391.31		410,277.32	443,668.63
Transmission Lines.....	18,262.04		278,537.84	296,799.88
Local Systems.....	33,168.07	1,245.72	25,866.09	60,279.88
	89,415.32	214,225.80	1,639,895.74	1,943,536.86
PATRICIA DISTRICT:				
Generating Stations:				
English River:				
Ear Falls.....	107,575.05	566.75	3,679,664.86	3,787,806.66
Manitou Falls.....	28,214.04			28,214.04
Albany River:				
Rat Rapids.....	211,847.07	39,297.44	571,098.96	822,243.47
	347,636.16	39,864.19	4,250,763.82	4,638,264.17
Transformer Stations.....	57,309.50		288,456.12	345,765.62
Transmission Lines.....	1,580,833.04		3,310,646.41	4,891,479.45
Local Systems.....	9,385.14		73,118.28	82,503.42
	1,995,163.84	39,864.19	7,922,984.63	9,958,012.66

NORTHERN ONTARIO PROPERTIES

Statement No. 19A

Held and operated by The Hydro-Electric Power Commission of Ontario
in trust for the Province of Ontario

FIXED ASSETS—December 31, 1950

Property	Under construction	In service		Total
		Non- depreciable	Depreciable	
RAINY RIVER DISTRICT:	\$	\$	\$	\$
Transformer Stations.....	159,129.34	.....	846,973.24	1,006,102.58
Transmission Lines.....	13,014.15	349,679.95	912,590.94	1,275,285.04
Local Systems.....	14,748.94	.....	75,803.07	90,552.01
Intangible.....	.....	4,086.32	.....	4,086.32
	186,892.43	353,766.27	1,835,367.25	2,376,025.95
NORTHERN ONTARIO PROPERTIES				
Communications.....	107,010.72	.....	1,378,928.89	1,485,939.61
NORTHERN ONTARIO PROPERTIES				
Office and Service Equipment...	.....	.....	182,049.19	182,049.19
NORTHERN ONTARIO PROPERTIES				
RURAL POWER DISTRICT:				
Distribution System:				
H-E.P.C. investment.....	473,041.98	4,299.62	4,360,339.03	4,837,680.63
Government grants.....	466,937.58	.....	4,258,609.28	4,725,546.86
Generating Station (Manitoulin).	1,716.51	43,396.98	193,444.91	238,558.40
Transformer Stns. (Manitoulin).	31,714.64	.....	18,000.00	49,714.64
Transmission Lines (Manitoulin)	25,076.05	.....	165,116.85	190,192.90
	998,486.76	47,696.60	8,995,510.07	10,041,693.43

**NORTHERN ONTARIO
CHANGES IN FIXED ASSETS—**

Class of asset	Balance at beginning of period	Expenditure during period
GENERATING STATIONS:	\$	\$
Abitibi District.....	20,021,977.10	79,530.35
Timiskaming District.....	9,491,676.45	1,035,020.62
Sudbury District.....	19,375,366.19	5,946,077.36
Nipissing District.....	1,129,669.98	14,194.49
Patricia District.....	4,286,746.00	362,918.17
Rainy River District.....	4,086.32	.....
	54,309,522.04	7,437,740.99
TRANSFORMER STATIONS:		
Abitibi District.....	3,212,712.28	139,012.70
Timiskaming District.....	1,865,363.53	210,624.95
Sudbury District.....	3,981,302.86	553,513.13
Nipissing District.....	88,108.79	353,715.84
Patricia District.....	253,839.91	96,212.90
Rainy River District.....	216,373.53	789,729.05
	9,617,700.90	2,142,808.57
TRANSMISSION LINES:		
Abitibi District.....	6,856,644.89	102,780.92
Timiskaming District.....	3,441,811.42	211,385.17
Sudbury District.....	2,966,064.78	1,325,502.66
Nipissing District.....	271,286.03	33,878.90
Patricia District.....	3,587,445.15	1,362,472.89
Rainy River District.....	1,264,929.97	10,355.07
	18,388,182.24	3,046,375.61
LOCAL SYSTEMS:		
Abitibi District.....	126,724.64	8,018.04
Timiskaming District.....	1,585,534.99	112,239.14
Nipissing District.....	26,632.89	33,646.99
Patricia District.....	74,120.95	8,778.47
Rainy River District.....	58,149.31	32,402.70
	1,871,162.78	195,085.34
COMMUNICATIONS.....	994,816.30	414,157.15
OFFICE AND SERVICE BUILDINGS:		
Timiskaming District.....	196,147.01	13,183.70
OFFICE AND SERVICE EQUIPMENT.....	†75,181.63	106,867.56
RURAL POWER DISTRICT:		
H-E.P.C. investment.....	2,840,229.03	1,990,504.50
Government grants.....	2,754,053.87	1,964,545.89
Power Development (Manitoulin).....	225,985.67	12,572.73
Transformer Stations (Manitoulin).....	18,664.25	28,284.39
Transmission Lines (Manitoulin).....	132,066.45	58,126.45
	5,970,999.27	4,054,033.96
	91,423,712.17	17,410,252.88
Less grants in aid of construction— Province of Ontario for Rural Power District	2,754,053.87	1,971,492.99
	88,669,658.30	15,438,759.89

†Classified as inventory in prior years.

PROPERTIES

Statement No. 20

For the 14-Month Period Ended December 31, 1950

Adjustment for equipment relocated	Retirements		Balance at end of period
	Values recovered (stores, sales and salvage)	Charged to reserve for depreciation and contingencies	
\$	\$	\$	\$
1,492.57		20.00	20,099,994.88
88,348.99	7,212.44	219,308.52	10,211,827.12
		230.00	25,321,213.55
	9.06	1,066.94	1,142,788.47
11,400.00			4,638,264.17
			4,086.32
101,241.56	7,221.50	220,625.46	61,418,174.51
55.00	565.00	*15,329.15	3,335,775.83
63,006.00	296.19	24,332.81	2,114,365.48
2,766.00	2,826.00	474.00	4,528,749.99
7,524.00		5,680.00	443,668.63
	143.95	4,143.24	345,765.62
			1,006,102.58
67,709.00	3,831.14	49,959.20	11,774,428.13
99,753.54		14,634.26	6,845,038.01
80,869.76	301.00	22,145.00	3,711,620.35
		249.16	4,291,318.28
2,107.00		6,258.05	296,799.88
40,574.16		17,864.43	4,891,479.45
			1,275,285.04
61,564.94	301.00	61,150.90	21,311,541.01
11,447.01	806.59	1,850.33	120,638.75
56,008.00	21,257.31	16,304.67	1,604,204.15
			60,279.88
		396.00	82,503.42
			90,552.01
67,455.01	22,063.90	18,551.00	1,958,178.21
80,619.16		3,653.00	1,485,939.61
986.00			208,344.71
			182,049.19
40,076.68	32,955.72	173.86	4,837,680.63
40,076.67	32,955.71	173.86	4,725,546.86
			238,558.40
2,766.00			49,714.64
			190,192.90
82,919.35	65,911.43	347.72	10,041,693.43
	99,328.97	354,287.28	108,380,348.80
			4,725,546.86
	99,328.97	354,287.28	103,654,801.94

*Portion charged
to Operations

Depreciation.....\$ 36,207.45
 Contingencies..... 317,909.14
 Operations..... 170.69

Statement No. 21

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario
in trust for the Province of Ontario

DEPRECIATION RESERVE—December 31, 1950

Balance at November 1, 1949.....	\$	7,687,885.64
Add:		
Interest at 4% per annum on reserve balance.....	\$	359,161.04
Provision in the 14-month period.....		1,149,455.72
Adjustment in respect of equipment transferred.....		10,778.92
		<u>1,519,395.68</u>
	\$	9,207,281.32
Deduct:		
Amounts withdrawn for renewals.....	\$	9,329.14
Amounts withdrawn in respect of assets removed from service.....		36,207.45
Excess reserve accumulated against assets removed from service—transferred to contingency reserve.....		6,203.33
		<u>51,739.92</u>
Balance at December 31, 1950.....	\$	<u>9,155,541.40</u>

Statement No. 22

CONTINGENCIES AND OBSOLESCENCE RESERVE—December 31, 1950

Balance at November 1, 1949.....	\$	2,721,555.79
Add:		
Interest at 4% per annum on reserve balance.....	\$	126,949.83
Provision in the 14-month period.....		612,108.78
Excess depreciation reserve accumulated against assets removed from service—transferred from depreciation reserve.....		6,203.33
Adjustments arising from the transfer of equipment.....		533.09
Transfer from fire insurance reserve no longer carried.....		220,945.04
		<u>966,740.07</u>
	\$	3,688,295.86
Deduct:		
Contingencies met with during the 14-month period.....	\$	75,016.47
Excess of cost of fixed assets retired over accumulated depreciation reserve.....		317,909.14
		<u>392,925.61</u>
Balance at December 31, 1950.....	\$	<u>3,295,370.25</u>

Statement No. 23

SINKING FUND RESERVE—December 31, 1950

Balance at November 1, 1949.....	\$	21,492,046.55
Add:		
Interest at 4% per annum on reserve balance.....	\$	941,187.90
Provision in the 14-month period.....		978,814.74
		<u>1,920,002.64</u>
Balance at December 31, 1950.....	\$	<u>23,412,049.19</u>

APPENDIX III

RATES TO CUSTOMERS IN RURAL POWER DISTRICTS—1950

- A.—Uniform Rate Structure applicable to Farm Service, Hamlet Service, Commercial Service, and Summer Service.
- B.—Industrial Power Service—Rates to Customers served through Facilities of Rural Operating Areas.

UNIFORM RURAL RATE STRUCTURE

The uniform rural rate structure in use for the sale of energy since May 1, 1950, incorporated a three-step energy charge, as follows:

1. A first block or number of kilowatt-hours of the consumption in the billing period which is charged for at 4.4 cents gross per kilowatt-hour.
2. A second block or number of kilowatt-hours of the consumption in the billing period which is charged for at 2.1 cents gross per kilowatt-hour.
3. All remaining kilowatt-hours of the consumption in the billing period which is charged for at 1.1 cents gross per kilowatt-hour.

Under these rate schedules, rural service is available in four main classes. All rural contracts for service carry a letter indicating the classification of the contract, followed by a number indicating the kilowatt demand rating or the demand permissible under the contract. These classes and designations are: farm service, F; hamlet service, H; commercial service, C; and summer service, S.

In the case of summer service the rates are on an annual basis and consist of an annual service charge instead of a minimum bill plus a consumption charge at the above rates.

The following are the rate schedules which were in force on May 1, 1950 for the main classes of service with various demand ratings:

RATE SCHEDULES FOR RURAL SERVICE

FARM SERVICE

Minimum demand rating for billing purposes—3 kilowatts

Farm rating	Demand in kw	kwh per month at 4.4 cents per kwh	kwh per month at 2.1 cents per kwh	kwh per month at 1.1 cents per kwh	Min bill per month gross
F3	3	60	180	Balance	\$ 2.25
F4	4	80	240	"	3.00
F5	5	100	300	"	3.75
F6	6	120	360	"	4.50
F7	7	140	420	"	5.25
F8	8	160	480	"	6.00
F9	9	180	540	"	6.75
F10	10	200	600	"	7.50

NOTE: Farm classes above F3 are computed by adding, for each month, 20 kwh to the number of kwh at the first rate, and 60 kwh to the number of kwh at the second rate, for each increase of 1 kw in demand.

For the minimum gross bill add 75 cents for each increase of 1 kw in demand.

Prompt payment discount 10 per cent.

HAMLET SERVICE

Minimum demand rating for billing purposes—2 kilowatts

Hamlet rating	Demand in kw	kwh per month at 4.4 cents per kwh	kwh per month at 2.1 cents per kwh	kwh per month at 1.1 cents per kwh	Min bill per month gross
H2	2	60	80	Balance	\$ 1.67
H3	3	60	180	"	2.25
H4	4	60	240	"	3.00
H5	5	80	300	"	3.75
H6	6	100	360	"	4.50
H7	7	120	420	"	5.25
H8	8	140	480	"	6.00
H9	9	160	540	"	6.75
H10	10	180	600	"	7.50

NOTE: Hamlet classes above H4 are computed by adding, for each month, 20 kwh to the number of kwh at the first rate and 60 kwh to the number of kwh at the second rate for each increase of 1 kw in demand.

For the minimum gross bill add 75 cents for each increase of 1 kw in demand.

Prompt payment discount 10 per cent.

COMMERCIAL SERVICE

Minimum demand rating for billing purposes—2 kilowatts

Commercial rating	Demand in kw	kwh per month at 4.4 cents per kwh	kwh per month at 2.1 cents per kwh	kwh per month at 1.1 cents per kwh	Min bill per month gross
C1*	1	30	60	Balance	\$ 0.75
C2	2	60	120	"	1.50
C3	3	90	180	"	2.25
C4	4	120	240	"	3.00
C5	5	150	300	"	3.75
C6	6	180	360	"	4.50
C7	7	210	420	"	5.25
C8	8	240	480	"	6.00
C9	9	270	540	"	6.75
C10	10	300	600	"	7.50

NOTE: Commercial classes above C2 are computed by adding, for each month, 30 kwh to the number of kwh at the first rate and 60 kwh to the number of kwh at the second rate, for each increase of 1 kw in demand.

For the minimum gross bill add 75 cents for each increase of 1 kw in demand.

Prompt payment discount 10 per cent.

*Only available in combination with a hamlet service.

SUMMER SERVICE

Minimum demand rating for billing purposes—2 kilowatts

Summer rating	Demand in kw	Annual fixed charge	kwh per annum at 4.4 cents per kwh	kwh per annum at 2.1 cents per kwh	kwh per annum at 1.1 cents per kwh	Minimum bill
		\$				
S2	2	16.67	150	450	Balance	Nil
S3	3	22.22	225	675	"	"
S4	4	22.22	300	900	"	"
S5	5	25.00	375	1,125	"	"
S6	6	30.00	450	1,350	"	"
S7	7	35.00	525	1,575	"	"
S8	8	40.00	600	1,800	"	"
S9	9	45.00	675	2,025	"	"
S10	10	50.00	750	2,250	"	"

NOTE: Summer-service classes above S2 are computed by adding, for each year, 75 kwh to the number of kwh at the first rate and 225 kwh to the number of kwh at the second rate for each increase of 1 kw in demand.

The annual fixed charge for all classes above S4 is \$5.00 for each kw in demand.

Prompt payment discount 10 per cent.

DESCRIPTION OF MAIN CLASSES OF HYDRO RURAL SERVICE**Farm Service**

Farm service means service rendered to lands and buildings thereon used for the production of food or industrial crops on that land, and shall include electric service to all farm buildings and equipment located on the farm and used for farm purposes, including that required for processing the products of the customer's farm.

Service may be supplied under a farm contract to all dwellings or separate domestic establishments located on the farm property and occupied by persons who are engaged in the operation of the farm.

Additional dwellings or domestic establishments located on a farm property and occupied by persons not engaged in the operation of the farm shall be classed as hamlet contracts and rated accordingly. Small properties of five acres and less shall be classed as hamlet services except under special circumstances when a farm classification may be applied.

The minimum demand of a farm service for billing purposes shall be taken as three kilowatts.

Commercial Service

Commercial service means service rendered to a business establishment, including a church, school, public hall, boarding house, or other establishment used wholly or in part for business or community purposes.

Single-phase power only will be supplied under a commercial contract. Where 3-phase power is required the service shall be classed as an industrial power service.

Hamlet Service

Hamlet service means service to a domestic establishment.

Summer Service

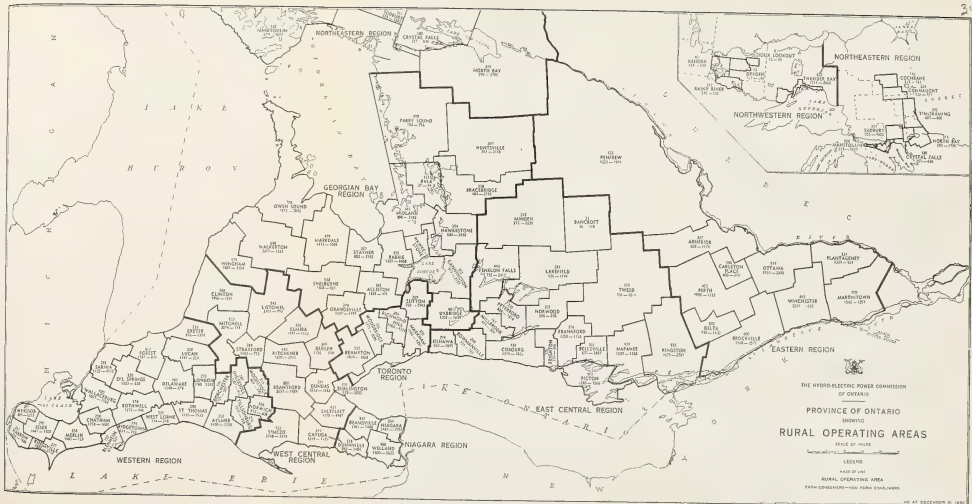
Summer service means service rendered to any kind of establishment normally used during the summer months only.

The demand rating for hamlet, commercial, and summer service is two kilowatts for a 2-wire service and is limited by a 20-ampere breaker or a 30-ampere fuse. If the demand exceeds two kilowatts, 3-wire service is supplied and the minimum demand rating is three kilowatts.

Industrial Power Service

Power service covers 3-phase service to power users, such as creameries, cheese factories, chopping mills, industries, and special loads which cannot be supplied as commercial single-phase service.

The following table shows the industrial power rates which were placed in force on May 1, 1950:



THE HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO

PROVINCE OF ONTARIO
SHOWING
RURAL OPERATING AREAS

SCALE OF MILES
LEGEND
RURAL OPERATING AREA
FARM CONSIDERED - NEW FARM CONSIDERED

**INDUSTRIAL POWER SERVICE—RATES TO CUSTOMERS
SERVED THROUGH FACILITIES OF RURAL OPERATING AREAS**

Control office location	Rural operating areas	Basis of rate, yearly charge 130 hrs monthly use of one hp	Service charge per kw per month	First 50 hrs per month per kwh	Second 50 hrs per month per kwh	All addi- tional per kwh	Prompt payment discount
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SOUTHERN ONTARIO SYSTEM

Western Region

		\$	\$	cents	cents	cents	%
Aylmer.....	Aylmer.....	34.00	1.35	3.4	2.2	0.33	10
Blenheim.....	Blenheim.....	35.00	1.35	3.5	2.3	0.33	10
Bothwell.....	Bothwell.....	37.00	1.35	3.8	2.5	0.33	10
Chatham.....	Chatham.....	31.00	1.35	2.9	1.9	0.33	10
Delaware.....	Delaware.....	32.00	1.35	3.1	2.0	0.33	10
Dorchester.....	Dorchester.....	32.00	1.35	3.1	2.0	0.33	10
Essex.....	Essex.....	34.00	1.35	3.4	2.2	0.33	10
Exeter.....	Exeter.....	37.00	1.35	3.8	2.5	0.33	10
Forest.....	Forest.....	39.00	1.35	4.1	2.7	0.33	10
Harrow.....	Harrow.....	35.00	1.35	3.5	2.3	0.33	10
Ingersoll.....	Ingersoll.....	31.00	1.35	2.9	1.9	0.33	10
Kingsville.....	Kingsville.....	35.00	1.35	3.5	2.3	0.33	10
London.....	London.....	31.00	1.35	2.9	1.9	0.33	10
Lucan.....	Lucan.....	37.00	1.35	3.8	2.5	0.33	10
Merlin.....	Merlin.....	35.00	1.35	3.5	2.3	0.33	10
Norwich.....	Norwich.....	32.00	1.35	3.1	2.0	0.33	10
Oil Springs.....	Oil Springs.....	39.00	1.35	4.1	2.7	0.33	10
Ridgetown.....	Ridgetown.....	40.00	1.35	4.3	2.8	0.33	10
St. Thomas.....	St. Thomas.....	34.00	1.35	3.4	2.2	0.33	10
Sarnia.....	Sarnia.....	36.00	1.35	3.7	2.4	0.33	10
Tillsonburg.....	Tillsonburg.....	32.00	1.35	3.1	2.0	0.33	10
Wallaceburg.....	Wallaceburg.....	34.00	1.35	3.4	2.2	0.33	10
West Lorne.....	West Lorne.....	37.00	1.35	3.8	2.5	0.33	10
Windsor.....	Windsor.....	31.00	1.35	2.9	1.9	0.33	10
Woodstock.....	Woodstock.....	31.00	1.35	2.9	1.9	0.33	10

West Central Region

Brantford.....	Brantford.....	32.00	1.35	3.1	2.0	0.33	10
Burlington.....	Burlington.....	31.00	1.35	2.9	1.9	0.33	10
Cayuga.....	Cayuga.....	41.00	1.35	4.4	2.9	0.33	10
Clinton.....	Clinton.....	39.00	1.35	4.1	2.7	0.33	10
Dundas.....	Dundas.....	31.00	1.35	2.9	1.9	0.33	10
Elmira.....	Elmira.....	32.00	1.35	3.1	2.0	0.33	10
Guelph.....	Guelph.....	30.00	1.35	2.8	1.8	0.33	10
Kitchener.....	Kitchener.....	32.00	1.35	3.1	2.0	0.33	10
Listowel.....	Listowel.....	32.00	1.35	3.1	2.0	0.33	10
Mitchell.....	Mitchell.....	35.00	1.35	3.5	2.3	0.33	10
Stoney Creek.....	Saltfleet.....	27.00	1.35	2.3	1.5	0.33	10
	Caledonia Section	31.00	1.35	2.9	1.9	0.33	10
Simcoe.....	Simcoe.....	35.00	1.35	3.5	2.3	0.33	10
Stratford.....	Stratford.....	32.00	1.35	3.1	2.0	0.33	10

**INDUSTRIAL POWER SERVICE—RATES TO CUSTOMERS
SERVED THROUGH FACILITIES OF RURAL OPERATING AREAS**

Control office location	Rural operating areas	Basis of rate, yearly charge 130 hrs monthly use of one hp	Service charge per kw per month	First 50 hrs per month per kwh	Second 50 hrs per month per kwh	All addi- tional per kwh	Prompt payment discount
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SOUTHERN ONTARIO SYSTEM—Continued

Niagara Region

		\$	\$	cents	cents	cents	%
Beamsville.....	Beamsville.....	30.00	1.35	2.8	1.8	0.33	10
Dunnville.....	Dunnville.....	34.00	1.35	3.4	2.2	0.33	10
St. Catharines.....	Niagara.....	29.00	1.35	2.6	1.7	0.33	10
Welland.....	Welland.....	25.00	1.35	2.0	1.3	0.33	10

Toronto Region

Brampton.....	Brampton.....	32.00	1.35	3.1	2.0	0.33	10
Markham.....	Markham.....	32.00	1.35	3.1	2.0	0.33	10
Richmond Hill.....	Richmond Hill.....	32.00	1.35	3.1	2.0	0.33	10
Sutton.....	Sutton.....	35.00	1.35	3.5	2.3	0.33	10
Woodbridge.....	Woodbridge.....	34.00	1.35	3.4	2.2	0.33	10

Georgian Bay Region

Alliston.....	Alliston.....	37.00	1.35	3.8	2.5	0.33	10
Bala.....	Bala.....	31.00	1.35	2.9	1.9	0.33	10
Barrie.....	Barrie.....	37.00	1.35	3.8	2.5	0.33	10
Bracebridge.....	Bracebridge.....	36.00	1.35	3.7	2.4	0.33	10
Cannington.....	Cannington.....	39.00	1.35	4.1	2.7	0.33	10
Orillia.....	Hawkestone.....	30.00	1.35	2.8	1.8	0.33	10
Huntsville.....	Huntsville.....	35.00	1.35	3.5	2.3	0.33	10
Markdale.....	Markdale.....	32.00	1.35	3.1	2.0	0.33	10
Penetanguishene.....	Midland.....	34.00	1.35	3.4	2.2	0.33	10
Orangeville.....	Orangeville.....	45.00	1.35	4.9	3.3	0.33	10
Owen Sound.....	Owen Sound.....	40.00	1.35	4.3	2.8	0.33	10
Parry Sound.....	Parry Sound.....	34.00	1.35	3.4	2.2	0.33	10
Shelburne.....	Shelburne.....	39.00	1.35	4.1	2.7	0.33	10
Stayner.....	Stayner.....	32.00	1.35	3.1	2.0	0.33	10
Uxbridge.....	Uxbridge.....	40.00	1.35	4.3	2.8	0.33	10
Walkerton.....	Walkerton.....	37.00	1.35	3.8	2.5	0.33	10
Wingham.....	Wingham.....	39.00	1.35	4.1	2.7	0.33	10

East Central Region

Bancroft.....	Bancroft.....	50.00	1.35	5.7	3.8	0.33	10
Belleville.....	Belleville.....	30.00	1.35	2.8	1.8	0.33	10
Bowmanville.....	Bowmanville.....	32.00	1.35	3.1	2.0	0.33	10
Cobourg.....	Cobourg.....	31.00	1.35	2.9	1.9	0.33	10
fenelon Falls.....	Fenelon Falls.....	35.00	1.35	3.5	2.3	0.33	10
Frankford.....	Frankford.....	29.00	1.35	2.6	1.7	0.33	10
Brighton.....	Brighton.....	29.00	1.35	2.6	1.7	0.33	10
Kingston.....	Kingston.....	31.00	1.35	2.9	1.9	0.33	10
Lakefield.....	Lakefield.....	31.00	1.35	2.9	1.9	0.33	10
Millbrook.....	Millbrook.....	35.00	1.35	3.5	2.3	0.33	10

**INDUSTRIAL POWER SERVICE—RATES TO CUSTOMERS
SERVED THROUGH FACILITIES OF RURAL OPERATING AREAS**

Control office location	Rural operating areas	Basis of rate, yearly charge 130 hrs monthly use of one hp	Service charge per kw per month	First 50 hrs per month per kwh	Second 50 hrs per month per kwh	All addi- tional per kwh	Prompt payment discount
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SOUTHERN ONTARIO SYSTEM—Continued

East Central Region—Continued

		\$	\$	cents	cents	cents	%
Minden	Minden	35.00	1.35	3.5	2.3	0.33	10
Napanee	Napanee	30.00	1.35	2.8	1.8	0.33	10
Norwood	Norwood	39.00	1.35	4.1	2.7	0.33	10
Oshawa	Oshawa	31.00	1.35	2.9	1.9	0.33	10
Peterborough	Peterborough	25.00	1.35	2.0	1.3	0.33	10
Picton	Picton	36.00	1.35	3.7	2.4	0.33	10
Tweed	Tweed	42.00	1.35	4.6	3.0	0.33	10

Eastern Region

Arnprior	Arnprior	31.00	1.35	2.9	1.9	0.33	10
Brockville	Brockville	31.00	1.35	2.9	1.9	0.33	10
Delta	Delta	32.00	1.35	3.1	2.0	0.33	10
Lancaster	Martintown	41.00	1.35	4.4	2.9	0.33	10
Ottawa	Ottawa	27.00	1.35	2.3	1.5	0.33	10
Perth	Perth	32.00	1.35	3.1	2.0	0.33	10
	Carleton Place	30.00	1.35	2.8	1.8	0.33	10
Plantagenet	Plantagenet	41.00	1.35	4.4	2.9	0.33	10
Cobden	Renfrew	31.00	1.35	2.9	1.9	0.33	10
Winchester	Winchester	32.00	1.35	3.1	2.0	0.33	10

THUNDER BAY SYSTEM

Northwestern Region

Port Arthur	Thunder Bay	30.00	1.35	2.8	1.8	0.33	10
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NORTHERN ONTARIO PROPERTIES

Northeastern Region

Cochrane	Cochrane	50.00	1.35	5.7	3.8	0.33	10
Matheson	Connaught	42.00	1.35	4.6	3.0	0.33	10
Kagawong	Manitoulin	44.00	1.35	4.8	3.2	0.33	10
North Bay	North Bay	42.00	1.35	4.6	3.0	0.33	10
	Crystal Falls	50.00	1.35	5.7	3.8	0.33	10
Sudbury	Sudbury	37.00	1.35	3.8	2.5	0.33	10
New Liskeard	Timiskaming	41.00	1.35	4.4	2.9	0.33	10

Northwestern Region

Dryden	Dryden	50.00	1.35	5.7	3.8	0.33	10
Kenora	Kenora	50.00	1.35	5.7	3.8	0.33	10
Fort Frances	Rainy River	50.00	1.35	5.7	3.8	0.33	10
Sioux Lookout	Sioux Lookout	50.00	1.35	5.7	3.8	0.33	10

RURAL OPERATING AREAS
MILES OF LINE, NUMBER OF CUSTOMERS—DECEMBER 31, 1950
Constructed and Receiving Service

Rural operating areas	Miles of line constructed	Number of customers receiving service						Not completed in 1950*	
		Farm	Hamlet	Commercial	Summer	Power	Total	Miles	Customers
SOUTHERN ONTARIO SYSTEM									
Western Region									
Aylmer.....	331.69	1,490	930	184	209	5	2,818	0.47	.....
Blenheim.....	132.20	613	330	63	139	5	1,150	0.23	.....
Bothwell.....	377.68	1,279	297	133	1	15	1,725	2.28	4
Chatham.....	298.42	1,358	1,494	163	.....	23	3,038	3.79	5
Delaware.....	462.27	1,648	487	186	.....	5	2,326	4.77	4
Dorchester.....	194.99	797	406	88	2	11	1,304	3.78	1
Essex.....	289.96	1,441	856	122	513	9	2,941	3.47	9
Exeter.....	239.40	976	498	125	745	6	2,350	7.71	2
Forest.....	302.37	1,187	156	84	565	6	1,998	0.85	4
Harrow.....	231.25	1,223	694	104	1,083	5	3,109	2.10	9
Ingersoll.....	287.30	1,007	330	70	7	5	1,419	0.63	2
Kingsville.....	226.83	1,637	877	126	1,094	15	3,749	1.65	5
London.....	290.78	1,180	4,930	278	3	24	6,415	6.28	10
Lucan.....	327.51	1,141	134	87	.....	3	1,365	9.62	3
Merlin.....	358.45	1,481	361	147	208	7	2,204	9.79	8
Norwich.....	198.46	912	244	56	.....	8	1,220	.....	.....
Oil Springs.....	320.18	1,203	201	120	.....	5	1,529	4.13	4
Ridgetown.....	173.85	624	249	55	464	4	1,396	1.20	.....
St. Thomas.....	290.17	1,141	1,362	154	11	6	2,674	0.80	8
Sarnia.....	288.27	1,125	3,499	259	749	8	5,640	2.08	2
Tillsonburg.....	236.06	1,017	630	134	.....	15	1,796	.....	.....
Wallaceburg.....	420.45	1,607	803	215	134	12	2,771	12.60	73
West Lorne.....	235.10	774	157	59	31	1	1,022	0.55	2
Windsor.....	201.48	809	5,836	403	.....	34	7,082	3.30	1
Woodstock.....	214.08	869	646	120	.....	4	1,639	0.33	1
Total Western Region.....	6,929.20	28,539	26,407	3,535	5,958	241	64,680	82.41	157
West Central Region									
Brantford.....	605.43	2,637	1,230	225	13	16	4,121	15.33	16
Burlington.....	110.90	528	2,397	127	27	31	3,110	1.80	31
Cayuga.....	342.76	1,219	499	147	472	21	2,358	6.95	6
Clinton.....	566.21	1,956	733	218	435	5	3,347	14.21	6
Dundas.....	334.34	1,532	1,411	158	.....	13	3,114	1.20	10
Elmira.....	425.57	1,341	889	168	45	20	2,463	1.80	9
Guelph.....	348.51	1,126	946	117	17	10	2,216	5.85	11
Kitchener.....	482.89	1,690	3,366	334	172	39	5,601	4.89	11
Listowel.....	542.36	2,101	575	208	2	7	2,893	0.69	42
Mitchell.....	522.62	2,074	558	179	.....	11	2,822	9.82	4
Saltfleet.....	437.05	1,598	3,904	309	246	28	6,085	5.70	41
Simcoe.....	733.28	3,148	1,949	312	1,002	11	6,422	5.05	11
Stratford.....	283.87	1,133	459	104	1	9	1,706	7.25	.....
Total West Central Region.....	5,735.79	22,083	18,916	2,606	2,432	221	46,258	80.54	198

*Miles of line and total customers, not included in preceding columns.

RURAL OPERATING AREAS

MILES OF LINE, NUMBER OF CUSTOMERS—DECEMBER 31, 1950

Constructed and Receiving Service

Rural operating areas	Miles of line constructed	Number of customers receiving service						Not completed in 1950*	
		Farm	Hamlet	Commercial	Summer	Power	Total	Miles	Customers

SOUTHERN ONTARIO SYSTEM—Continued

Niagara Region

Beamsville.....	346.55	1,961	1,124	196	138	22	3,441	9.20	1
Dunnville.....	237.50	942	517	119	838	10	2,426	1.25	8
Niagara.....	243.52	1,483	3,532	239	190	30	5,474	8.28	13
Welland.....	407.76	1,409	4,574	373	623	53	7,032	18.98	18
Total Niagara Region.....	1,235.33	5,795	9,747	927	1,789	115	18,373	37.71	40

Toronto Region

Brampton.....	532.05	1,839	1,375	197	283	13	3,707	16.04	20
Markham.....	349.68	1,483	3,243	248	763	37	5,774	1.80	10
Richmond Hill....	293.56	1,066	3,752	280	266	26	5,390	7.37	15
Sutton.....	269.28	756	1,195	157	2,576	15	4,699	8.17	33
Woodbridge.....	356.08	1,170	1,716	249	103	27	3,265	7.15	9
Total Toronto Region.....	1,800.65	6,314	11,281	1,131	3,991	118	22,835	40.53	87

Georgian Bay Region

Alliston.....	360.90	1,338	333	118	16	4	1,809	8.82	41
Bala.....	112.63	27	429	59	926	2	1,443	1.49	7
Barrie.....	434.86	1,229	1,450	212	2,798	8	5,697	3.57	1
Bracebridge.....	337.80	484	763	123	1,827	2	3,199	6.35	42
Cannington.....	352.11	917	636	139	1,376	6	3,074	3.00	16
Hawkestone.....	353.95	680	617	137	1,681	3	3,118	13.68	1
Huntsville.....	307.22	363	1,058	185	867	8	2,481	1.39	2
Markdale.....	478.53	1,472	595	190	255	5	2,517	6.01	28
Midland.....	360.77	890	611	126	2,444	1	4,072	6.73	22
Orangeville.....	373.96	1,107	743	200	245	3	2,298	6.73	11
Owen Sound.....	707.74	1,872	1,137	326	1,378	1	4,714	0.70	4
Parry Sound.....	169.50	163	515	79	181	1	939	2.46	22
Shelburne.....	537.95	1,608	271	144	16	.....	2,039	1.42	5
Stayner.....	320.58	883	690	142	2,929	4	4,648	9.33	18
Uxbridge.....	401.02	1,202	741	167	727	4	2,841	8.36	18
Walkerton.....	697.72	2,311	642	250	335	6	3,544	6.78	15
Wingham.....	575.44	1,887	587	236	332	3	3,045	2.20	7
Total Georgian Bay Region.....	6,882.68	18,433	11,818	2,833	18,333	61	51,478	89.02	260

*Miles of line and total customers, not included in preceding columns.

RURAL OPERATING AREAS

MILES OF LINE, NUMBER OF CUSTOMERS—DECEMBER 31, 1950

Constructed and Receiving Service

Rural operating areas	Miles of line constructed	Number of customers receiving service						Not completed in 1950*	
		Farm	Hamlet	Commercial	Summer	Power	Total	Miles	Customers

SOUTHERN ONTARIO SYSTEM—Continued

East Central Region

Bancroft.....	30.93	36	102	13	3	.....	154	12.10	36
Belleville.....	203.32	691	1,669	174	36	8	2,578	6.30	.....
Bowmanville.....	248.67	724	512	105	101	5	1,447	1.85	13
Brighton.....	120.21	376	158	27	180	1	742	2.15	.....
Cobourg.....	485.96	1,374	934	214	670	4	3,196	4.59	3
Fenelon Falls.....	442.66	725	440	127	1,839	6	3,137	13.18	52
Frankford.....	376.36	1,250	764	163	208	1	2,386	2.06	7
Kingston.....	584.92	1,679	1,909	365	500	13	4,466	17.91	52
Lakefield.....	241.19	426	526	130	537	1	1,620	0.65	9
Millbrook.....	161.00	477	196	56	51	1	781	1.20	1
Minden.....	249.31	272	1,038	223	956	3	2,492	8.34	110
Napanee.....	438.90	1,529	882	259	142	5	2,817	2.82	4
Norwood.....	221.08	508	250	70	353	3	1,184	2.00	17
Oshawa.....	293.95	929	4,261	295	304	35	5,824	3.39	16
Peterboro.....	229.90	888	1,171	170	471	6	2,706	2.68	31
Picton.....	413.36	1,589	924	212	427	3	3,155	2.70	3
Tweed.....	309.95	704	602	134	274	1	1,715	10.96	41
Total East Central Region.....	5,051.67	14,177	16,338	2,737	7,052	96	40,400	94.88	395

Eastern Region

Arnprior.....	266.71	638	773	176	212	13	1,812	12.92	47
Brockville.....	599.98	1,968	1,464	366	729	18	4,545	4.97	9
Carleton Place.....	165.70	400	113	65	134	1	713	4.66	12
Delta.....	305.63	748	483	149	468	.....	1,848	0.76	5
Martintown.....	469.65	1,542	875	249	128	7	2,801	25.27	86
Ottawa.....	519.06	1,936	1,796	362	200	22	4,316	17.90	31
Perth.....	452.89	1,096	705	175	447	5	2,428	16.29	65
Plantagenet.....	323.59	1,239	705	176	40	3	2,163	3.75	33
Renfrew.....	524.71	1,223	1,537	323	121	13	3,217	21.55	102
Winchester.....	665.18	2,631	955	328	36	13	3,963	2.25	4
Total Eastern Region.....	4,293.10	13,421	9,406	2,369	2,515	95	27,806	110.32	394

THUNDER BAY SYSTEM

Northwestern Region

Thunder Bay.....	621.87	1,511	1,461	230	364	7	3,573	18.88	3
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*Miles of line and total customers, not included in preceding columns.

RURAL OPERATING AREAS

MILES OF LINE, NUMBER OF CUSTOMERS—DECEMBER 31, 1950

Constructed and Receiving Service

Rural operating areas	Miles of line constructed	Number of customers receiving service						Not completed in 1950*	
		Farm	Hamlet	Commercial	Summer	Power	Total	Miles	Customers

NORTHERN ONTARIO PROPERTIES

Northeastern Region

Cochrane.....	142.51	319	710	69	2	.....	1,100	.....	41
Connaught.....	232.60	523	587	117	44	9	1,280	15.71	5
Crystal Falls.....	179.89	357	532	93	10	1	993	5.99	240
Manitoulin.....	338.24	619	1,030	328	289	10	2,276	54.20	44
North Bay.....	314.37	595	2,006	246	531	12	3,390	13.73	75
Sudbury.....	316.91	655	3,924	291	276	11	5,157	24.66	107
Timiskaming.....	294.79	601	598	149	103	10	1,461	8.67	68
	1,819.31	3,669	9,387	1,293	1,255	53	15,657	122.96	580

Northwestern Region

Dryden.....	93.31	127	169	64	7	.....	367	2.31	62
Kenora.....	79.95	134	103	9	27	.....	273	2.00	109
Rainy River.....	242.15	510	413	139	.....	3	1,065	8.52	11
Sioux Lookout.....	7.95	12	18	6	10	.....	46	.....	.....
	423.36	783	703	218	44	3	1,751	12.83	182
Total Northern Ontario Properties	2,242.67	4,452	10,090	1,511	1,299	56	17,408	135.79	762

*Miles of line and total customers, not included in preceding columns.

APPENDIX IV

SUPPLEMENTARY MATERIAL RELATING TO SECTION V—ENGINEERING AND CONSTRUCTION

Contents:

1. A list of station projects, in addition to those described in Section V, which were completed or under construction in 1950.
2. Table showing changes in transformer capacity during the fiscal year ended December 31, 1950.
3. Summary table of transformer step-down capacity at December 31, 1950.
4. A list of transmission line changes and additions made during the fiscal year ended December 31, 1950.
5. Summary table of transmission lines and circuits at December 31, 1950.
6. A section relating to communications—telephone, power-line carrier, telemetering circuits, and radio facilities.

OTHER PROJECTS

The following paragraphs deal briefly with a number of other projects in the electrical engineering field completed or under construction during the fiscal year 1950.

SOUTHERN ONTARIO SYSTEM

TORONTO, NIAGARA, WEST CENTRAL, AND WESTERN REGIONS

Armitage—A new 22,400-kva, 60-cycle, 115/26.4-kv transformer station was placed in service August 17, 1950. This station supplies 60-cycle power for North Yonge Street area which was changed from 25-cycle to 60-cycle operation in 1950.

Brantford—Preliminary work has started on a new 25-cycle transformer station at Brantford which will include a dual-frequency transformer rated 15,000/27,000 kva at 115/26.4 kv. The station is scheduled for service in June 1952.

Caledonia—The capacity of this station is being increased by the installation of one 8,000 - 14,400-kva, 25/60-cycle, 115/26.4-kv transformer bank. The present capacity is 8,000 kva at 25 cycles. The new transformer is expected to be in service in September 1951.

Essex—The capacity of the transformer station is being increased by the installation of two 25,000-kva, 60-cycle, 115/26.4-kv transformer banks. This will result in a 25-cycle capacity of 60,000 kva and a 60-cycle capacity of 50,000 kva.

Galt—Two 8,000-kva, 25-cycle transformers were placed in service in December 1949.

Hamilton Beach—The installation of two 15,000-kva, 60-cycle, 115/44/4-kv transformer banks is under way and expected to be in service in April 1951.

Hamilton-Gage—The fifth 25,000-kva, 25-cycle transformer was placed in service in November 1949. The capacity of the transformer station is now 125,000 kva.

Hamilton-Kenilworth—Preliminary engineering has commenced on a new 60-cycle, 115/13-kv transformer station to supply power to Dominion Foundries and Steel Limited.

Kent—The capacity of the transformer station is being increased by the installation of one 8,000/14,400-kva, 25/60-cycle, 115/26.4-kv transformer bank which is expected to be in service in April 1951.

Kingsville—The capacity of the transformer station is being increased by the installation of one 8,000/14,400-kva, 25/60-cycle, 115/26.4-kv transformer bank which is expected to be in service in July 1951.

London—At the transformer station a 115/13.2-kv, 60-cycle, 31,500 kva bank of transformers is being installed, replacing a 15,000 kva, 25-cycle bank. This installation is scheduled for completion in January 1951.

The installation of a 32,400-kva, 60-cycle, 115/26.4-kv transformer bank is in progress and is scheduled for completion in May 1951.

London-Nelson—A new 54,000-kva, 60-cycle, 115/13.2-kv transformer station was placed in service in March 1950.

Norfolk—One 8,000/14,400-kva, 25/60-cycle, 115/26.4-kv transformer was placed in service in December 1950. The total capacity of the transformer station is now 16,000 kva at 25 cycles.

Palmerston—The capacity of the transformer station is being increased by the installation of one 8,000/14,400-kva, 25/60-cycle, 115/26.4-kv transformer bank which is expected to be in service in July 1951. Present station capacity is 8,000 kva at 25 cycles.

St. Catharines—The first two 15,000-kva, 25-cycle, 115/13.2-kv transformer banks of the new transformer station were placed in service in December 1950, replacing the former 16,000-kva, 115/13.2-kv temporary station. The third 15,000-kva bank is expected to be in service in June 1951.

St. Clair—At the transformer station the initial 60-cycle, 27,000-kva, 115/26.4-kv transformer bank was placed in service in November 1950.

St. Marys—The installation at the transformer station of two 8,000-kva, 60-cycle, 115/13.2-kv transformer banks is in progress. They are expected to be in service in February 1951.

St. Thomas—The capacity of the transformer station is being increased by the installation of one 8,000/14,400-kva, 25/60-cycle, 115/26.4-kv transformer bank which is expected to be in service in November 1951.

Work is proceeding on the installation of two 5,000-kva, 60-cycle, 26.4/13.2-kv autotransformers. These are expected to be in service in May 1951.

Seaforth—A new 16,000-kva, 60-cycle, 115/26.4-kv transformer station is under construction and is scheduled for service in March 1951.

Strathroy—A new 14,400-kva, 60-cycle, 115/26.4-kv transformer station was placed in service in December 1950.

Tillsonburg—A new 8,000-kva, 25-cycle, 115/26.4-kv transformer station was placed in service in May 1950.

Toronto-John—The construction of the new 60,000-kva, 25-cycle, 115/13.2-kv transformer station is progressing and it is expected to be in service in August 1951.

Toronto-Thorncliffe—Preliminary engineering has been started on a new temporary 30,000-kva, 60-cycle, 115/13.2-kv transformer station to be built to supply 60-cycle power to the Toronto Hydro-Electric System in the Leaside District. This station is scheduled for service in September 1951.

Toronto-Wiltshire—Preliminary work was started at the transformer station for the installation of the temporary 30,000 54,000-kva, 25/60-cycle transformer bank and 115-kv switching changes together with changing of transformer banks No. 5 and No. 6 to 60 cycles. Expected in-service dates are June and August 1951.

Wallaceburg—The capacity of the transformer station will be increased by the installation of an 8,000/14,400-kva, 25/60-cycle, 115/26.4-kv transformer bank. This transformer will be used initially at 25 cycles. It is expected to be in service in October 1951.

Windsor-Crawford—Construction is in progress on a 54,000-kva, 60-cycle, 115/26.4-kv transformer station. This station is expected to be in service in July 1951.

The replacement of high-voltage, oil circuit-breakers at a number of transformer stations referred to in the 1949 Report was completed in 1950.

EASTERN, EAST CENTRAL, AND GEORGIAN BAY REGIONS

Barrie—The capacity of the transformer station was increased by the installation of a second 15,000-kva bank in July 1950. The total station capacity is now 30,000 kva.

Brooklin—A new 2,000-kva, 44/8-kv distributing station was placed in service in November 1950.

Cassburn—A new 1,500-kva, 115/8-kv distributing station is being designed. The station is tentatively scheduled for service in October 1951.

Cobourg—The transformer capacity of the distributing station was increased from 2,250 to 4,000 kva.

Durham—The capacity of the distributing station is being increased from 600 to 2,000 kva.

Footes Bay—A new 1,000-kva, 44/12-kv distributing station was placed in service in December 1949.

Grand Valley—The capacity of the second distributing station was increased from 600 to 2,000 kva in October 1950.

Gravenhurst—A new 2,000-kva, 44/12-kv distributing station is under construction.

Haliburton—The capacity of the distributing station is being increased from 1,000 to 2,000 kva. The station is scheduled for completion in January 1951.

Hinchinbrooke—The construction of a new 1,500-kva, 115/12-kv distributing station is under way. This station is scheduled for service in May 1951.

Kingston Mills—A new 1,000-kva, 44/8-kv distributing station was placed in service in December 1949.

Mallorytown—A new 1,000-kva, 44/8-kv distributing station was placed in service in February 1950.

Napanee—A new temporary 1,000-kva, 44/8-kv distributing station was placed in service in July 1950.

Orangeville—The capacity of the second distributing station was increased from 1,000 to 2,000 kva in July 1950.

Oshawa—The capacity of the transformer station is being increased from 30,000 kva to 55,000 kva. This is scheduled for completion in July 1951.

Ottawa-Overbrook—A new 15,000-kva, 115/11-kv transformer station was placed in service in September 1950.

Ottawa-Riverdale—Work has started at the transformer station on the installation of a third 15,000-kva transformer bank which is scheduled for completion in December 1952.

Parry Sound—A new 2,000-kva, 44/12-kv distributing station was placed in service in February 1950.

Port Perry—The capacity of the rural station was increased from 750 kva to 2,000 kva in July 1950.

Richmond—A new 1,500-kva, 115/8-kv distributing station is under construction and is expected to be in service in January 1951.

Ross L. Dobbin—The 115/44-kv capacity of the transformer station is being increased from 30,000 to 50,000 kva and is scheduled for completion in October 1951. This station is on the same site as the 230/115-kv station mentioned under Chenaux Lines and Stations.

Shelburne—A new 1,000-kva, 44/8-kv distributing station is under construction.

Smiths Falls—The transformer capacity of the station was increased in May 1950 by the temporary installation of a 6,000-kva, 44/26-kv transformer required to supply additional power to the Rideau District.

Wasaga Beach—The capacity of the distributing station was increased by the addition of a second 2,000-kva transformer bank in June 1950, bringing the total capacity to 4,000 kva.

Waubashene—A new 1,000-kva, 44/8-kv distributing station is under construction and is expected to be in service in February 1951.

Wingham—A new 2,000-kva, 44/4-kv distributing station was placed in service in November 1949.

THUNDER BAY SYSTEM

Fort William—The capacity of the transformer station was being increased from 15,000 kva to 30,000 kva. The new capacity is expected to be in service in July 1952.

NORTHERN ONTARIO PROPERTIES

Bleazard Valley—The capacity of the distributing station was increased from 600 kva to 2,000 kva in August 1950.

Coniaurum Mines—A new 5,000-kva, 26.4/12-kv autotransformer station was placed in service on July 23, 1950.

Copper Cliff—A new 115-kv, 60-cycle switching station was placed in service in December 1950. This station supplies 60-cycle power to the International Nickel Company's new mill and new oxygen plant.

Dome Mines—A new 5,000-kva, 26.4/12-kv autotransformer station was placed in service in July 1950.

Englehart—A new 750-kva, 44/4-kv distributing station was placed in service in September 1950, replacing the old station.

Haileybury—The capacity of the distributing station was increased from 1,200 to 2,250 kva in September 1950.

Hound Chute—A new 2,000-kva, 11/13.2 kv distributing station was placed in service in April 1950.

Little Current—A new 2,000 kva, 44/12-kv distributing station is under construction. This will replace a temporary 600-kva station now in service.

McIntyre Mines—A new 10,000-kva, 26.4/12-kv autotransformer station was placed in service in December 1949.

Moose Lake—A new 30,000-kva, 115/44-kv transformer station was placed in service in October 1950.

New Liskeard—The new 3,600-kva, 60-cycle, 44/11-kv transformer station was placed in service in September 1950.

South Porcupine—A new 2,000-kva, 26.4/2.3-kv distributing station was placed in service in June 1950, replacing the old 1,500-kva station.

Timagami—A new 1,000-kva, 115/12-kv distributing station was placed in service in February 1950. This station replaces a 500-kva temporary station.

Timmins—A new 5,000-kva, 26.4/4-kv distributing station is under construction.

Warren—A new 1,000-kva, 115/12-kv distributing station was placed in service in January 1950.

CHANGES IN TRANSFORMER CAPACITY
DURING FISCAL YEAR ENDED DECEMBER 31, 1950

Station	Type	Date	Transformers installed				Transformers removed	
			No.	kva	Ph.	Total kva	No.	kva
SOUTHERN ONTARIO SYSTEM								
Acton No. 2.....	D.S.	Oct. 13, 1950	1	2,000/3,600	3	2,000/3,600		
Agincourt.....	D.S.	Sept. 1, 1950	3	333/600	1	1,000/1,800	3	250
Alliston No. 1.....	D.S.	May 14, 1950	3	333	1	1,000	3	200
Alvinston.....	D.S.	Dec. 23, 1949	1	600	3	600	1	300
Angus.....	D.S.	July 13, 1950	1	600	3	600		
Apple Hill.....	D.S.	Sept. 29, 1950					1	300
Armitage.....	T.S.	Aug. 17, 1950	1	8,000	3	8,000		
			1	8,000/14,500	3	8,000/14,500		
Aurora No. 2.....	D.S.	Sept. 25, 1950	1	3,000	3	3,000		
A. W. Manby.....	T.S.	July 4, 1950	2	90,000	3	180,000		
		Sept. 2, 1950	2	40,000	3	80,000		
Bancroft No. 1.....	D.S.	Nov. 3, 1949	3	200	1	600		
Bancroft No. 2.....	D.S.	Nov. 3, 1949	1	100	1	100		
Barrie.....	T.S.	July 17, 1950	3	5,000	1	15,000		
Barry's Bay.....	D.S.	Mar. 23, 1950	3	250	1	750		
Beeton.....	D.S.	May 14, 1950	1	300	3	300	1	150
Belle River.....	D.S.	April 2, 1950	3	667/1,200	1	2,000/3,600	3	333
Berkeley.....	D.S.	June 30, 1950	3	200	1	600	2	100
Bothwell No. 2.....	D.S.	May 28, 1950	1	1,000/1,800	3	1,000/1,800		
Brooklin.....	D.S.	Nov. 22, 1950	3	667	1	2,000		
Broughdale.....	D.S.	Nov. 12, 1950	1	2,000/3,600	3	2,000/3,600		
Burgoyne.....	D.S.	April 16, 1950	3	1,500	1	4,500	3	333
Burlington.....	D.S.	Nov. 2, 1950	3	250	1	750		
Camp Borden.....	D.S.	July 14, 1950					3	50
Cardinal.....	D.S.	April 23, 1950	3	667	1	2,000	3	250
Carlisle.....	D.S.	Nov. 6, 1949	1	1,000/1,800	3	1,000/1,800		
Centralia.....	D.S.	Oct. 22, 1950	3	667/1,200	1	2,000/3,600	1	600
Cobourg.....	D.S.	Nov. 6, 1949	2	2,000	3	4,000	3	750
Comber.....	D.S.	June 22, 1950	1	1,000/1,800	3	1,000/1,800		
Cookstown.....	D.S.	May 14, 1950	1	300	3	300	1	150
Cultus.....	D.S.	Dec. 2, 1949	1	1,000/1,800	3	1,000/1,800		
Dublin.....	D.S.	May 10, 1950	1	600	3	600	1	300
Dunbarton.....	D.S.	Jan. 4, 1950	1	1,000/1,800	3	1,000/1,800	1	600
E. V. Buchanan.....	T.S.	Oct. 22, 1950	2	90,000	3	180,000		
Essex No. 2.....	D.S.	Feb. 9, 1950	1	1,000/1,800	3	1,000/1,800		
Etobicoke-Rose- thorne.....	D.S.	Nov. 26, 1950	1	2,000/3,600	3	2,000/3,600		
Exeter.....	D.S.	April 21, 1950	1	1,000/1,800	3	1,000/1,800		
Footes Bay.....	D.S.	Dec. 8, 1949	3	333	1	1,000		
Forfar.....	D.S.	July 12, 1950	1	500	1	500		
Galt.....	T.S.	Dec. 10, 1950	2	8,000	3	16,000		
General Engineering	D.S.	June 24, 1950	1	2,000	3	2,000	1	600
Glen Williams.....	D.S.	Jan. 18, 1950	3	667/1,200	1	2,000/3,600		

CHANGES IN TRANSFORMER CAPACITY
DURING FISCAL YEAR ENDED DECEMBER 31, 1950

Station	Type	Date	Transformers installed				Transformers removed	
			No.	kva	Ph.	Total ¹ kva	No.	kva
SOUTHERN ONTARIO SYSTEM—Continued								
Grand Valley No. 2. D.S.		Oct. 22, 1950	3	667	1	2,000	3	200
Grantham Twp.No.1 D.S.		April 16, 1950	1	2,000	3	2,000		
Grantham Twp.No.2 D.S.		Dec. 20, 1950	1	2,000/4,000	3	2,000/4,000		
Green River. D.S.		Jan. 29, 1950	1	600	3	600	1	600
Hamilton-Gage. T.S.		Nov. 29, 1949	1	25,000	3	25,000		
Hepworth. D.S.		June 23, 1950	3	667	1	2,000	3	200
Highfield. D.S.		Dec. 19, 1949	1	1,000	3	1,000		
Hollywood. D.S.		Aug. 27, 1950	1	3,000/5,400	3	3,000/5,400	1	1,875
Island Grove. D.S.		June 28, 1950	1	1,000/1,800	3	1,000/1,800	1	600
Jordan. D.S.		Aug. 26, 1950	1	2,000/3,600	3	2,000/3,600	2	300
							1	600
Kemptville. D.S.		Sept. 3, 1950	1	1,000	3	1,000	1	600
Kingston Mills. D.S.		Dec. 9, 1949	3	333	1	1,000		
Kirkfield No. 1. D.S.		Jan. 11, 1950					3	150
Kirkfield No. 2. D.S.		Jan. 11, 1950	1	1,000	3	1,000	1	300
London-Nelson. T.S.		Mar. 13, 1950	2	15,000/27,000	3	30,000/54,000		
London. T.S.		Feb. 12, 1950	1	5,000	3	5,000		
Long Branch. D.S.		Sept. 6, 1950	2	2,000	3	4,000		
Long Branch. D.S.		Sept. 17, 1950					3	500
Mallorytown. D.S.		Feb. 8, 1950	3	333	1	1,000		
Martintown. D.S.		Mar. 26, 1950	3	667	1	2,000	3	200
McDonalds Corners. D.S.		Nov. 30, 1950					1	25
Midhurst. D.S.		June 23, 1950	1	1,000	3	1,000	3	200
Millbrook No. 2. D.S.		Aug. 23, 1950	3	333	1	1,000	3	100
Milverton No. 2. D.S.		Dec. 4, 1950	1	1,000/2,000	3	1,000/2,000		
Monkton. D.S.		Aug. 3, 1950	1	1,000/1,800	3	1,000/1,800		
Mount Forest. D.S.		Jan. 29, 1950	3	200	1	600		
Napanee. D.S.		July 21, 1950	1	1,000	3	1,000		
Newmarket. D.S.		Aug. 29, 1950	1	2,000	3	2,000		
Norfolk. T.S.		Dec. 17, 1950	1	8,000/14,500	3	8,000/14,500		
Orangeville No. 2. . . . D.S.		July 23, 1950	3	667	1	2,000	3	333
Oshawa No. 2. D.S.		June 27, 1950					1	3,000
Ottawa-Overbrook. . . . T.S.		Sept. 20, 1950	3	5,000	1	15,000		
Ottawa No. 3. D.S.		Mar. 7, 1950	3	150	1	450		
Parry Sound. D.S.		Feb. 21, 1950	3	667	1	2,000		
Pinedale. D.S.		April 25, 1950	3	667	1	2,000	3	250
Port Elgin No. 2. D.S.		July 20, 1950	1	1,000	3	1,000	1	300
Port Nelson. D.S.		June 25, 1950	3	667/1,200	1	2,000/3,600	3	250
Port Perry. D.S.		July 25, 1950	3	667	1	2,000	3	200
Preston No. 2. D.S.		Aug. 22, 1950	1	1,000/1,800	3	1,000/1,800		
Princeton. D.S.		April 17, 1950	1	600	3	600		

CHANGES IN TRANSFORMER CAPACITY

DURING FISCAL YEAR ENDED DECEMBER 31, 1950

Station	Type	Date	Transformers installed				Transformers removed	
			No.	kva	Ph.	Total kva	No.	kva
SOUTHERN ONTARIO SYSTEM—Continued								
Richmond.....	D.S.	Dec. 18, 1950	3	500	1	1,500		
Rifle Ranges-Toronto Twp....	D.S.	Feb. 26, 1950	3	667/1,200	1	2,000/3,600	3	250
Ross L. Dobbin.....	T.S.	Nov. 19, 1950	1	70,000	3	70,000		
Ross L. Dobbin.....	T.S.	Sept. 1, 1950	1	15,000	3	15,000		
Rothsay.....	D.S.	Dec. 16, 1949	1	1,000/1,800	3	1,000/1,800		
St. Catharines.....	T.S.	Dec. 3, 1950	2	15,000/27,000	3	30,000/54,000		
St. Clair.....	T.S.	Nov. 8, 1950	3	9,000/12,000	1	27,000/36,000		
St. Jacobs.....	D.S.	Jan. 22, 1950	1	1,000/1,800	3	1,000/1,800	3	250
Sarnia Beach.....	D.S.	April 27, 1950	1	2,000/3,600	3	2,000/3,600		
Scarborough-August.....	D.S.	Oct. 5, 1950	1	3,000	3	3,000		
Scarborough.....	F.C.&T.S.	Dec. 8, 1950					2	8,000
Scarborough.....	F.C.&T.S.	Dec. 2, 1949	2	15,000/27,000	3	30,000/54,000		
Scarborough.....	F.C.&T.S.	Sept. 1, 1950	2	25,000	3	50,000	2	15,000/27,000
Scarborough Twp.								
No. 2.....	D.S.	Dec. 3, 1949	1	2,000/3,600	3	2,000/3,600	1	600
Seaforth.....	D.S.	Oct. 18, 1949	3	200	1	600	3	75
Smiths Falls.....	T.S.	May 26, 1950	1	6,000	3	6,000		
Smiths Falls No. 2....	D.S.	June 3, 1950	3	250	1	750	3	100
Smithville No. 2....	D.S.	Dec. 14, 1949	1	600	3	600		
Snow Road.....	D.S.	Nov. 30, 1950	3	100	1	300	3	37.5
Stevensville.....	D.S.	Nov. 3, 1949	1	600	3	600		
Strathroy.....	T.S.	Dec. 4, 1950	1	8,000/14,500	3	8,000/14,500		
Stratford.....	T.S.	May 28, 1950	1	8,000	3	8,000		
Thorndale.....	D.S.	Aug. 9, 1950	1	1,000/1,800	3	1,000/1,800		
Tillsonburg.....	T.S.	May 21, 1950	1	8,000	3	8,000		
Toronto-Esplanade...	T.S.	Oct. 31, 1949	2	25,000/45,000	3	50,000/90,000		
Toronto-Gerrard.....	T.S.	Nov. 17, 1949	4	6,250	3	25,000		
Toronto-Wiltshire....	T.S.	Dec. 1, 1950	6	6,000/10,800	1	36,000/64,800		
Tottenham.....	D.S.	Mar. 30, 1950	1	600	3	600	1	200
Unionville.....	D.S.	Dec. 20, 1949	3	667	1	2,000	1	600
Wallace.....	D.S.	April 6, 1950	1	1,000/1,800	3	1,000/1,800		
Wallaceburg.....	D.S.	April 2, 1950					1	1,500
Wasaga Beach.....	D.S.	June 30, 1950	3	667	1	2,000		
Waterford No. 2....	D.S.	Feb. 9, 1950	1	1,000	3	1,000		
Watford.....	D.S.	Dec. 21, 1950	1	1,000	3	1,000		
Warton No. 2.....	D.S.	June 4, 1950	3	333	1	1,000	3	100
Windsor-Academy....	D.S.	Nov. 21, 1949	1	2,000/3,600	3	2,000/3,600		
Wingham No. 2.....	D.S.	Nov. 6, 1949	3	667	1	2,000		
York.....	T.S.	June 30, 1950					3	5,000
THUNDER BAY SYSTEM								
Cameron Falls.....	T.S.	April 16, 1950	3	3,500	1	10,500	3	1,500
Nipigon.....	D.S.	Nov. 9, 1950	1	500	1	500		

CHANGES IN TRANSFORMER CAPACITY
DURING FISCAL YEAR ENDED DECEMBER 31, 1950

Station	Type	Date	Transformers installed				Transformers removed	
			No.	kva	Ph.	Total kva	No.	kva
NORTHERN ONTARIO PROPERTIES								
Birch Island	D.S.	July 23, 1950	1	200	1	200		
Blezard Valley	D.S.	Aug. 11, 1950	3	667	1	2,000	3	200
Coniaurum Mines	A.T.S.	July 23, 1950	1	5,000	3	5,000		
Dome Mines	A.T.S.	July 1, 1950	1	5,000	3	5,000		
Dryden	D.S.	Feb. 8, 1950	3	200	1	600		
Earlton	D.S.	Oct. 10, 1950					2	250
Englehart	D.S.	Sept. 3, 1950	3	250	1	750		
Fort Frances	D.S.	Dec. 8, 1950	3	333	1	1,000	3	100
Haileybury	D.S.	Sept. 11, 1950	3	750	1	2,250	3	400
Hound Chute	D.S.	April 12, 1950	3	667	1	2,000		
Hunta	S.S.	Jan. 29, 1950	3	50	1	150		
Kenora	D.S.	Feb. 3, 1950	3	100	1	300		
Mattawa	D.S.	Dec. 14, 1949	2	250	1	500		
McIntyre Mines	A.T.S.	Dec. 11, 1949	2	5,000	3	10,000		
Moose Lake	T.S.	Oct. 1, 1950	2	15,000	3	30,000		
New Liskeard	T.S.	Sept. 17, 1950	1	3,600	3	3,600		
North Bay	T.S.	Oct. 22, 1950	2	8,000	3	16,000		
Schumacher	D.S.	Jan. 17, 1950					3	333
South Porcupine (Old Stn)	D.S.	Aug. 3, 1950					3	500
South Porcupine (New Stn)	D.S.	June 25, 1950	3	667	1	2,000		
Sudbury No. 2	D.S.	Oct. 12, 1950	3	667	1	2,000		
Swastika	D.S.	Nov. 20, 1949					3	100
Timagami	D.S.	Feb. 26, 1950	1	1,000	3	1,000	1	500
Warren	D.S.	Jan. 14, 1950	1	1,000	3	1,000		

TOTAL TRANSFORMER STEP-DOWN CAPACITY

System and voltage	Fre- quency cycles	Capacity in kva		
		Total at Oct. 31, 1949	Net additions 1950	Total at Dec. 31, 1950
SOUTHERN ONTARIO SYSTEM				
230,000-volt.....	25	720,000	180,000	900,000
230,000-volt.....	60	.....	330,000	330,000
115,000-volt.....	25	1,458,850	182,000	1,640,850
115,000-volt.....	60	290,250	167,100	457,350
44,000-volt.....	60	168,850	28,000	196,850
44,000-volt.....	66½	7,000	750	7,750
33,000-volt.....	60	11,720	.....	11,720
26,400-volt.....	25	224,325	44,200	268,525
26,400-volt.....	60	8,025	66,475	74,500
22,000-volt.....	60	10,400	1,250*	9,150
22,000-volt.....	66½	2,010	4,500	6,510
13,200-volt.....	25	77,225	5,850	83,075
13,200-volt.....	60	350	.....	350
Less than 13,200-volt.....	60	8,650	600	9,250
THUNDER BAY SYSTEM				
115,000-volt.....	60	93,433	317	93,750
44,000-volt.....	60	1,200	.....	1,200
22,000-volt.....	60	4,000	.....	4,000
NORTHERN ONTARIO PROPERTIES				
132,000/115,000-volt.....	25	202,270	.....	202,270
132,000/115,000-volt.....	60	16,500	47,500	64,000
69,000-volt.....	60	3,750	.....	3,750
44,000-volt.....	25	24,500	.....	24,500
44,000-volt.....	60	25,450	4,284	29,734
26,400-volt.....	25	30,235	22,000	52,235
22,000-volt.....	60	5,750	3,900	9,650
12,000-volt.....	25	14,125	2,800*	11,325
12,000-volt.....	60	8,250	3,050	11,300
Less than 12,000-volt.....	25	825	.....	825
Less than 12,000-volt.....	60	8,725	4,050	12,775

*Removals.

TRANSMISSION LINE CHANGES AND ADDITIONS

MADE DURING THE FISCAL YEAR ENDED DECEMBER 31, 1950

SOUTHERN ONTARIO SYSTEM

HIGH-VOLTAGE LINES

Two 230-kv, single-circuit, and one 230-kv, double-circuit, steel-tower transmission lines were built from Des Joachims Generating Station 94.10 miles to Minden Switching Station. These three lines are parallel to each other.

A 230-kv, single-circuit, steel-tower transmission line was built from Minden Switching Station 74.55 miles to Holland Landing.

A second 230-kv, single-circuit, steel-tower transmission line was built from Minden Switching Station 74.64 miles to Holland Landing.

From Holland Landing the above two lines joined a new 230-kv, double-circuit, steel-tower transmission line 32.07 miles to Richview Junction.

A 230-kv, double-circuit, steel-tower transmission line was built from Richview Junction 3.91 miles to A. W. Manby Transformer Station and Service Centre.

A 230-kv, double-circuit, steel-tower transmission line was built from Richview Junction 28.50 miles to Burlington Transformer Station.

A 230-kv, double-circuit, steel-tower transmission line was built from Minden Switching Station 75.45 miles to Essa Transformer Station.

A 230-kv, double-circuit, steel-tower transmission line was built from Essa Transformer Station 121.50 miles to E. V. Buchanan Transformer Station.

A 230-kv, single-circuit, steel-tower transmission line was built from Otto Holden Generating Station 56.61 miles to Des Joachims Generating Station.

A 230-kv, single-circuit, steel-tower transmission line was built from Chenaux Generating Station 28.99 miles to a point on the Barrett Chute-to-Oshawa line, 95.76 miles of which were used to complete the line to Ross L. Dobbin Transformer Station.

A 230-kv, double-circuit, steel-tower transmission line was built from Burlington Transformer Station 15.75 miles to Mount Hope Junction.

A 230-kv, double-circuit, steel-tower transmission line was built from Masson Generating Station 3.26 miles to Cumberland Junction. One circuit will operate at 115,000 volts.

A 115-kv, double-circuit, steel-tower transmission line was built from Speedsville Junction 3.89 miles to Galt Transformer Station.

A 115-kv, double-circuit, steel-tower transmission line was built from E. V. Buchanan Transformer Station 3.50 miles to London-Nelson Transformer Station.

A 115-kv, double-circuit, steel-tower transmission line was built from Armitage Junction 0.82 mile to Armitage Transformer Station.

A 115-kv, single-circuit, steel-tower transmission line was built from Scarborough Frequency-Changer and Transformer Station 4.90 miles to Leaside Junction.

A 115-kv circuit was added to the double-circuit steel-tower line from Scarborough Frequency-Changer and Transformer Station 4.90 miles to Leaside Junction. The first circuit built in 1946 was used until May 1950 as part of the 115-kv line from Scarborough to Barrie.

A 115-kv, double-circuit, steel-tower transmission line was built from Leaside Junction 26.84 miles to A. W. Manby Transformer Station and Service Centre.

A 115-kv, single-circuit, wood-pole transmission line was built from Louth Junction 2.29 miles to St. Catharines Transformer Station.

A 115-kv, double-circuit, steel-tower transmission line was built from Sydenham Junction 3.02 miles to Strathroy Transformer Station.

A 115-kv, double-circuit, steel-tower transmission line was built from E. V. Buchanan Transformer Station 2.75 miles to London Transformer Station.

A 115-kv, 4-circuit, steel-tower transmission line was built from A. W. Manby Transformer Station and Service Centre 5.37 miles to St. Clair Avenue Junction.

A 115-kv, 4-circuit, steel-tower transmission line was built from St. Clair Avenue Junction 0.41 mile to Wiltshire Junction.

A 115-kv, single-circuit, wood-pole transmission line was built from Cranberry Junction 2.21 miles to Tillsonburg Transformer Station.

A second 115-kv circuit was added to double-circuit steel towers from Scott Street Junction 1.64 miles to Sarnia Transformer Station.

A 115-kv, double-circuit, steel-tower transmission line was built from Scott Street Junction 1.62 miles to Sitter Avenue Junction. This line replaced a single-circuit, steel-tower line between the same points built in 1946.

A 115-kv, single-circuit, wood-pole transmission line was built from Sitter Avenue Junction 0.39 mile to St. Clair Transformer Station.

A 115-kv, single-circuit, steel-tower transmission line was built from Ross L. Dobbin Transformer Station 27.25 miles to a point on the Barrett Chute-to-Oshawa line, 13.60 miles of which were used to complete the line to Oshawa Transformer Station.

A portion of 115-kv, single-circuit, wood-pole line 0.94 mile was rerouted between Bryson Generating Station and Haley Switching Station.

A 115-kv, single-circuit, steel-tower transmission line was built from Barrett Chute Generating Station 72.84 miles to Frontenac Transformer Station.

A 115-kv, single-circuit tap was extended 0.02 mile to Ottawa-Overbrook Transformer Station.

A 115-kv, double-circuit, steel-tower transmission line was removed between York Transformer Station and Islington Junction, a distance of 1.31 miles.

Two 115-kv, double-circuit, steel-tower transmission lines, each 4.50 miles long, were removed between Islington Junction and Wiltshire Junction.

LOW-VOLTAGE LINES

TORONTO, NIAGARA, WEST CENTRAL, AND WESTERN REGIONS

Brant District—A 26.4-kv, single-circuit, wood-pole transmission line was built from Canning Junction 6.53 miles to Princeton Distributing Station.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Bank Street Junction 0.80 mile to Simcoe Municipal Station No. 2.

A 26.4-kv, single-circuit, wood-pole transmission line was built from St. Williams Distributing Station 11.13 miles to Cultus Distributing Station.

A 26.4-kv tap was made to Waterford Distributing Station No. 2.

Cooksville District—One 13.2-kv line section from Queen Street Junction 1.56 miles to Brampton Distributing Station was reinsulated and the voltage was raised to 26,400 volts.

Four other sections of 13.2-kv line totalling 15.45 miles were reinsulated for 26.4-kv operation and transferred to the Kipling District lines.

Dominion Power District—A 44-kv tap was made to the Hayes Steel Products Limited.

A 44-kv, single-circuit, wood-pole transmission line was built from Ferro Junction 0.13 mile to Ferro Enamels Station.

A 44-kv, single-circuit, wood-pole transmission line was built from DeCew Generating Station 2.69 miles to Burgoyne Distributing Station.

A portion of 10-kv, single-circuit, wood-pole line was rerouted a distance of 0.28 mile between Hamilton-Victoria Municipal Station and Canada Crushed Stone Company.

Dundas District—A 26.4-kv tap was made to Dundas Municipal Station No. 3.

Five sections of 13.2-kv line totalling 18.74 miles were reinsulated for 44-kv operation and voltage raised to 26.4-kv.

Essex District—A 26.4-kv, single-circuit, wood-pole transmission line was built from Intersection Road Junction 0.38 mile to Essex Distributing Station No. 2.

A portion of 26.4-kv, single-circuit, wood-pole transmission line was rerouted, east of Kingsville, 0.80 mile to clear a drainage ditch.

Fairbank-Armitage District—A 26.4-kv, single-circuit, wood-pole transmission line was built from Ranee Junction 0.91 mile to North York Township Municipal Station (Ranee Avenue).

A 26.4-kv, single-circuit, wood-pole transmission line was built from Forest Hill Municipal Station No. 1, 0.70 mile to Forest Hill Municipal Station No. 2.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Willowdale Regulator Station 1.03 miles to North York Township Municipal Station (Sheppard Avenue).

A 26.4-kv, single-circuit, wood-pole transmission line was built from Armitage Transformer Station 0.48 mile to Newmarket Junction.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Armitage Transformer Station 0.67 mile to Newmarket Distributing Station.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Ringwood Junction 1.54 miles to Stouffville Distributing Station.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Tyler Street Junction 0.10 mile to Aurora Distributing Station No. 2.

The Commission acquired from the Toronto Transportation Commission the poles and rights-of-way for four existing sections of 26.4-kv line on North Yonge Street totalling 5.85 miles.

Guelph District—A 26.4-kv, single-circuit, wood-pole transmission line was built from Queen Street Junction 0.37 mile to Acton Distributing Station No. 2.

Eleven sections of 13.2-kv line totalling 39.49 miles were reinsulated for 26.4-kv operation and the voltage was raised to 26,400 volts.

Hamilton District—A portion of 13.2-kv circuit, which was carried on the west side of former 60-kv steel towers, was removed from Windermere Junction 1.76 miles to Burlington Beach Distributing Station.

A portion of the former 90-kv, Toronto and Niagara Power Company, steel-tower line, erected in 1913, was used to provide a new 13.2-kv circuit from Windermere Junction to Burlington Beach Distributing Station, a distance of 1.76 miles.

Kent District—A 26.4-kv, single-circuit, wood-pole transmission line was built from Chatham Generating Station 0.68 mile to Chatham Municipal Station No. 4.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Peltier Street Junction 5.82 miles to Comber Distributing Station.

A 26.4-kv tap was made to Bothwell Distributing Station No. 2.

A 26.4-kv, single-circuit, wood-pole line was restrung with heavier conductor from Rondeau Junction to Rondeau Distributing Station.

Kipling District—A 26.4-kv tap, 0.10 mile, was made to the Coleman Lamp Company Station.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Horner Avenue Junction 0.30 mile to Ontario Reformatory.

A second 26.4-kv circuit was added to the wood-pole line from Horner Avenue Junction 0.85 mile to New Toronto Distributing Station.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Churchville Junction 3.14 miles to Queen Street Junction.

Five sections of 13.2-kv transmission line totalling 18.65 miles, reinsulated in 1949, were raised to 26,400 volts.

A 26.4-kv, single-circuit, wood-pole transmission line was built from A. W. Manby Transformer Station and Service Centre 5.84 miles to Malton Junction.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Malton Junction 2.60 miles to Avro Junction.

A 26.4-kv, single-circuit, wood-pole transmission line was built from A. W. Manby Transformer Station and Service Centre 2.23 miles to Leary Avenue Junction.

A 26.4-kv, double-circuit, wood-pole transmission line was built from Leary Avenue Junction 0.24 mile to Fourth Street Junction.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Fourth Street Junction 0.26 mile to Horner Avenue Junction.

Kitchener District—A 26.4-kv, single-circuit, wood-pole transmission line was built from First Street Junction 1.21 miles to Elmira Municipal Station No. 1.

A 26.4-kv, single-circuit, wood-pole transmission line was built from First Street Junction 0.53 mile to Elmira Municipal Station No. 2.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Kitchener Transformer Station 6.86 miles to Waterloo Distributing Station. A second circuit was erected on twenty poles for 0.44 mile and is part of a revision to the line from Kitchener Transformer Station to Mannheim Junction.

Eight sections of 13.2-kv line totalling 27.19 miles were reinsulated during 1949 and 1950 and the voltage was raised to 26,400 volts.

London District—A 26.4-kv, single-circuit, wood-pole transmission line was built from London Transformer Station 4.42 miles to General Motors Corporation.

A 26.4-kv tap was made to Exeter Distributing Station No. 2.

A 26.4-kv, single-circuit, wood-pole transmission line was built from McWilliams Junction 6.80 miles to Thorndale Distributing Station.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Broughdale Distributing Station No. 1, 0.23 mile to Broughdale Distributing Station No. 2. It is in operation at 13.2 kv.

Preston District—A 26.4-kv, single-circuit, wood-pole transmission line was built from Galt Transformer Station 1.36 miles to Galt Distributing Station.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Galt Transformer Station 1.20 miles to Dundas Road Junction.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Galt Transformer Station 0.80 mile to Samuelson Junction. The above three lines will operate initially at 13,200 volts.

Scarborough-Leaside Districts—A 26.4-kv, single-circuit, wood-pole transmission line was built from Dentonia Junction 0.47 mile to Nash-Kelvinator Company.

A 26.4-kv, double-circuit, wood-pole transmission line was built from Scarborough Transformer Station 8.65 miles to Toronto-Gerrard Transformer Station.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Agincourt Distributing Station 7.58 miles to Mount Joy Junction.

A 26.4-kv, single-circuit, wood-pole transmission line from Birchmount Junction 0.61 mile to General Engineering Distributing Station was purchased.

Sixteen sections of 13.2-kv line totalling 8.04 miles were changed to 26.4-kv operation. These sections were formerly fed from Toronto-Leaside Transformer Station but are now connected to Scarborough Frequency-Changer and Transformer Station.

St. Clair District—A second 26.4-kv circuit was added to existing poles from St. Clair Transformer Station 1.15 miles to Kenny Street Junction.

A second 26.4-kv circuit was added to existing poles from Sarnia Transformer Station 1.23 miles to Kenny Street Junction.

Stratford District—A 26.4-kv tap was made to Milverton Distributing Station No. 2.

An extension of the 26.4-kv, single-circuit, wood-pole transmission line was built from Monkton 1.39 miles to Monkton Distributing Station.

A 26.4-kv tap was made to Wallace Distributing Station.

Strathroy District—A 26.4-kv, single-circuit, wood-pole transmission line was built from Strathroy Transformer Station 11.08 miles to Brown Creek Junction.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Brown Creek Junction 11.12 miles to Thedford Junction.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Brown Creek Junction 1.19 miles to Andrews Wire Works.

Thorold District—A 12-kv, single-circuit, wood-pole transmission line was built from Ontario Street Junction 1.15 miles to Grantham Distributing Station.

A 12-kv, single-circuit, wood-pole transmission line was built from St. Catharines Transformer Station 0.20 mile to Richardson Junction.

A 12-kv, single-circuit, wood-pole transmission line was restrung with heavier conductor from Richardson Junction 0.57 mile to Ontario Street Junction.

Woodstock District—A 26.4-kv, single-circuit, wood-pole transmission line was built from Tillsonburg Transformer Station 0.32 mile to Fourth Street Junction.

York District—A second circuit was added to the 26.4-kv line from Avro Junction 0.17 mile to A. V. Roe Limited.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Malton Junction 2.60 miles to Avro Junction.

A 26.4-kv, single-circuit, wood-pole transmission line was restrung with heavier conductor from Weston Junction 1.79 miles to Albion Park Junction.

A 26.4-kv, single-circuit, wood-pole transmission line was restrung with heavier conductor from Albion Park Junction 1.15 miles to Albion Park Distributing Station.

One 26.4-kv circuit of a double-circuit wood-pole transmission line was restrung with heavier conductor from Bering Avenue Junction 0.52 mile to Islington Distributing Station.

EASTERN, EAST CENTRAL, AND GEORGIAN BAY REGIONS

Bala District—A 44-kv tap was made to Parry Sound Distributing Station.

A 44-kv tap was made to Footes Bay Distributing Station.

Central District—A 44-kv, single-circuit, wood-pole transmission line was built from Perth Road Junction 5.13 miles to Kingston Mills Distributing Station.

The 44-kv, double-circuit portion of the wood-pole transmission line between Curve Inn Junction 1.02 miles to Bowmanville Distributing Station was rebuilt as a single circuit.

A 44-kv, single-circuit, wood-pole transmission line was built from Bowmanville Distributing Station 1.25 miles to intersect the line to Whitby Junction.

A portion of the 44-kv, single-circuit, wood-pole transmission line between Bowmanville Distributing Station and Whitby Junction 0.26 mile in length was removed.

A 44-kv, single-circuit, wood-pole transmission line from Cavan Junction 1.69 miles to Lindsay Junction was removed.

A portion of the 44-kv, single-circuit, wood-pole transmission line between Cavan Junction and Auburn Switching Station 0.36 mile in length was removed.

A portion of the 44-kv, single-circuit, wood-pole transmission line between Lindsay Junction and Auburn Switching Station 1.96 miles in length was removed.

A 44-kv, single-circuit, wood-pole transmission line was built from Ross L. Dobbin Transformer Station 4.31 miles to Lindsay Junction.

A 44-kv, single-circuit, wood-pole transmission line was built from Ross L. Dobbin Transformer Station for 1.45 miles and connected to 3.52 miles of existing 44-kv line to Lindsay Junction.

A 44-kv, single-circuit, wood-pole transmission line was built from Ross L. Dobbin Transformer Station for 2.16 miles and connected to 3.20 miles of existing 44-kv line to Auburn Switching Station.

A 44-kv, single-circuit, wood-pole transmission line was built from Ross L. Dobbin Transformer Station for 0.65 mile and connected to 4.01 miles of existing 44-kv line to Auburn Switching Station.

A 44-kv, single-circuit, wood-pole transmission line was built from Ross L. Dobbin Transformer Station for 0.68 mile and connected to 3.65 miles of existing 44-kv line to Cavan Junction.

A 44-kv tap was made to Brooklin Distributing Station.

A 44-kv, single-circuit, wood-pole transmission line was built from Oshawa Distributing Station No. 2, 0.70 mile to Oshawa Municipal Station No. 1.

A 44-kv, single-circuit, wood-pole transmission line was built from Bowmanville Distributing Station 0.24 mile to Bowmanville Municipal Station.

A 44-kv, single-circuit, wood-pole transmission line was partly rerouted for 0.47 mile between Lakefield Generating Station and Auburn Switching Station.

Eugenia District—A 44-kv tap was made to Mount Forest Distributing Station No. 2.

A 44-kv tap was made to Wingham Distributing Station No. 2.

A 44-kv, single-circuit, wood-pole transmission line was built from Owen Sound (Kennedy) Distributing Station 0.06 mile to Owen Sound Municipal Station No. 2.

A 44-kv, single-circuit, wood-pole transmission line was built from Rockford Junction 4.69 miles to Owen Sound Municipal Station No. 2.

A 44-kv, single-circuit, wood-pole transmission line was built from Owen Sound Transformer Station 0.31 mile to Owen Sound Distributing Station No. 2.

A 44-kv, single-circuit line between Kilsyth Distributing Station and Owen Sound Municipal Station was cut opposite Owen Sound Transformer Station and rerouted into and out of this station.

A 44-kv, single-circuit, wood-pole transmission line was built from Owen Sound Transformer Station 1.73 miles to Rockford Junction.

A 44-kv, single-circuit, wood-pole transmission line was built, 0.11 mile, from Owen Sound Distributing Station No. 2 to connect to an existing circuit, 1.25 miles, which is used to Rockford Junction. This 1.25-mile circuit was restrung.

A 44-kv tap was made to Hanover Distributing Station No. 2.

Madawaska District—A 44-kv, single-circuit, wood-pole transmission line was built from Killaloe Junction 13.47 miles to Barry's Bay Distributing Station. This section will be operated at 12,000 volts temporarily.

St. Lawrence District—A 44-kv, single-circuit, wood-pole transmission line was built from Manitoba Junction 14.21 miles to Mallorytown Distributing Station.

A 44-kv, single-circuit, wood-pole transmission line from Hoople Street Junction 0.61 mile to Cornwall Distributing Station was purchased from Peebles Products Limited.

A portion of 44-kv, single-circuit, wood-pole transmission line between Cornwall Transformer Station and Howard Smith Paper Mills Distributing Station was rerouted a distance of 0.61 mile to clear the highway.

A 44-kv tap to Apple Hill Distributing Station was removed.

Severn District—A 22-kv, single-circuit, wood-pole line from Allandale Junction 1.73 miles to Painswick Distributing Station was removed.

A 22-kv temporary circuit from Painswick Distributing Station 4.81 miles to Thornton Junction was removed.

A 22-kv temporary circuit from Thornton Junction 5.99 miles to Bradford Junction was removed.

Six sections of 22-kv transmission line totalling 23.20 miles were rebuilt and reinsulated, and voltage was raised to 44-kv operation.

Waddell District—Three sections of 22-kv transmission line totalling 22.05 miles were reinsulated and the voltage was raised to 44,000 volts.

THUNDER BAY SYSTEM

A 22-kv, single-circuit, wood-pole transmission line was built from Fort William Transformer Station 1.21 miles to Leland Avenue Junction.

A rearrangement of circuits at William Street Junction resulted in the removal of one circuit on 22-kv operation on the 115-kv steel-tower transmission line between William Street Junction and Fort William Transformer Station, a distance of 2.53 miles.

At the same time, a portion of the 115-kv wood-pole transmission line from William Street Junction 2.26 miles to Leland Avenue Junction was reduced to 22-kv operation.

NORTHERN ONTARIO PROPERTIES

Abitibi District—A 26.4-kv, single-circuit, wood-pole transmission line was built from Ramore Transformer Station 10.40 miles to Canadian Johns-Manville Company Limited.

A 26.4-kv tap was made to Schumacher Distributing Station 0.07 mile.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Hollinger Transformer Station 1.18 miles to McIntyre Junction.

A 26.4-kv, single-circuit, wood-pole transmission line was built from McIntyre Junction 0.26 mile to McIntyre Mines.

A 26.4-kv, single-circuit, wood-pole transmission line was built from McIntyre Junction 1.02 miles to Coniaurum Mines Autotransformer Station.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Ray Hill Junction 0.75 mile to Coniaurum Mines Autotransformer Station.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Paymaster Consolidated Mines 0.90 mile to Dome Mines Autotransformer Station.

A 26.4-kv, single-circuit, wood-pole transmission line extension, 0.52 mile in length, was built to the existing line to Nickel Offsets Limited.

Nipissing District—A 22-kv, single-circuit, wood-pole transmission line was built from Mattawa River Junction 0.45 mile to Mattawa Distributing Station.

Patricia District—A 22-kv, single-circuit, wood-pole transmission line between Crow River Transformer Station and Central Patricia Junction, 0.30 mile in length, was rebuilt and restrung.

A 22-kv, single-circuit, wood-pole transmission line between Central Patricia Junction and Pickle Crow Junction, 4.39 miles, in length was rebuilt and restrung.

A 22-kv, single-circuit, wood-pole transmission line between Pickle Crow Junction and Pickle Crow Mine, 0.26 mile in length, was rebuilt and restrung.

A 22-kv, single-circuit, wood-pole transmission line between Pickle Crow Junction and Pickle Crow (Winoga) Mine, 1.22 miles in length, was rebuilt and restrung.

A 44-kv tap was made to Dryden Distributing Station.

Sudbury District—A 22-kv tap 0.14 mile in length was made to Sudbury Distributing Station No. 2.

Timiskaming District—A 44-kv, single-circuit, wood-pole transmission line was built from Dymond Junction 0.50 mile to New Liskeard Transformer Station.

A 44-kv tap was made to a new Earlton Distributing Station located south of the original station, which has now been removed.

A 44-kv, single-circuit, wood-pole transmission line was rerouted between Lower Sturgeon Generating Station and Timmins Transformer Station, a distance of 0.40 mile, to clear private property.

An 11-kv, single-circuit, wood-pole transmission line was built from New Liskeard Transformer Station 0.97 mile to intersect and connect to 3.63 miles of existing overhauled line to Haileybury Distributing Station.

An 11-kv, single-circuit, wood-pole transmission line was built from New Liskeard Transformer Station 0.19 mile to intersect and connect to 0.63 mile of existing line to New Liskeard Distributing Station.

A portion, 1.14 miles, of 11-kv, single-circuit, wood-pole transmission line between Haileybury Distributing Station and New Liskeard Distributing Station was removed.

An 11-kv, single-circuit, wood-pole transmission line between Cobalt Transformer Station and New Liskeard Distributing Station, a distance of 10.07 miles, was removed.

A 12-kv, single-circuit, wood-pole transmission line between Porcupine Creek Switching Station and Great Northern Distributing Station, a distance of 1.00 mile, was removed.

A 12-kv, single-circuit, wood-pole transmission line between Dome Road Junction and Dome Mines Junction, a distance of 0.62 mile, was sold.

A 12-kv, single-circuit, wood-pole transmission line between Dome Road Junction and Porcupine Creek Switching Station, a distance of 1.30 miles, was sold.

A 12-kv, single-circuit, wood-pole transmission line between Schumacher Transformer Station and Coniaurum Junction, a distance of 1.57 miles, was sold.

TOTAL MILEAGE OF TRANSMISSION LINES AND CIRCUITS

System and voltage	Kind of structures	Line route or structure miles			Circuit miles
		Total at Oct. 31, 1949	Net additions 1950	Total at Dec. 31, 1950	Total at Dec. 31 1950
SOUTHERN ONTARIO SYSTEM					
230,000-volt.....	steel	1,376.76	893.29	2,270.05	2,693.40
115,000-volt.....	steel	1,306.11	45.38	1,351.49	1,994.03
115,000-volt.....	wood	635.33	4.86	640.19	643.84
60,000-volt.....	steel	20.00	.....	20.00	21.13
60,000-volt.....	wood	0.25	.....	0.25	0.25
44,000-volt and less.....	steel	94.81	1.76	96.57	137.20
44,000-volt and less.....	wood	3,330.72	170.65	3,501.37	3,947.84
THUNDER BAY SYSTEM					
115,000-volt.....	steel	147.28	76.78	224.06	371.22
115,000-volt.....	wood	178.83	10.34	189.17	189.17
44,000-volt and less.....	wood	176.88	9.25*	167.63	205.86
NORTHERN ONTARIO PROPERTIES					
132,000-volt.....	steel	382.77	1.56	384.33	768.66
132,000-volt.....	wood	196.09	46.38	242.47	242.47
115,000-volt.....	steel	65.60	8.94	74.54	141.13
115,000-volt.....	wood	212.39	164.81	377.20	377.20
69,000-volt.....	wood	203.72	.....	203.72	203.72
44,000-volt and less.....	wood	1,122.35	7.99*	1,114.36	1,195.64
Totals.....	.....	9,449.89	1,407.51†	10,857.40	13,132.76

*Removals.

†Net increase.

NOTE: Circuit miles of 230,000-volt line in the Province of Quebec connected to H-E.P.C. lines=103.47 miles, making a total system interconnected mileage of 2,796.87.

COMMUNICATIONS—ALL SYSTEMS

CHANGES AND ADDITIONS MADE

DURING THE FISCAL YEAR ENDED DECEMBER 31, 1950

SOUTHERN ONTARIO SYSTEM

Telephone

In Southern Ontario, a 50-pair communication cable was installed between Bronson Municipal Station and the Eastern Regional Office in Ottawa. A 50-pair cable was extended to the Toronto Regional Office from a point on the existing cable system from Head Office to Toronto-Bridgman Transformer Station. A 25-pair communication cable was installed between Allanburg Transformer Station and Thorold Ontario Paper Company Transformer Station. A 25-pair communication cable was installed between Toronto-Gerrard Transformer Station and the Toronto Hydro-Electric System's Station E. A 16-pair communication cable was installed between Galt Transformer Station and Galt Municipal Station, and a 6-pair cable was installed between the Western Regional Office and the London Area Office. A portion of the overhead 50-pair cable between Burlington Transformer Station and Hamilton Beach Transformer Station was placed underground.

The construction of 165.77 circuit miles of telephone line was completed and 101.62 circuit miles of telephone line were replaced or rerouted. Single-story telephone-line carrier-channels were established between the East Central Regional Office and the Ross L. Dobbin Transformer Station and between E. V. Buchanan Transformer Station and St. Clair Transformer Station.

Private automatic telephone exchanges were installed at the West Central Regional Office, the Western Regional Office, the East Central Regional Office, the Eastern Regional Office, and A. W. Manby Service Centre. At the Head Office administration building, an additional 200-

line automatic exchange extension was installed and a third position was added to the existing private branch manual telephone switchboard. A new private branch telephone exchange was installed at High Falls Generating Station to replace the existing equipment. Temporary private automatic and branch telephone exchanges were installed at Chenaux Generating Station and Otto Holden Generating Station, while a double operators' desk was installed at Des Joachims Generating Station.

Power-Line Carrier

Voice duplex power-line carrier-channels were placed in service between Chenaux Generating Station and Ross L. Dobbin Transformer Station; Des Joachims Generating Station and Minden Switching Station; and between Minden Switching Station and A. W. Manby Transformer Station and Service Centre. Single power-line carrier-relay-protection-channels were placed in service between Minden Switching Station and A. W. Manby Transformer Station and Service Centre; A. W. Manby Transformer Station and Service Centre and Burlington Transformer Station; and Burlington Transformer Station and E. V. Buchanan Transformer Station. Three power-line carrier-relay-protection-channels were established between Des Joachims Generating Station and Minden Switching Station.

THUNDER BAY SYSTEM

Telephone

In the Thunder Bay System, 94 miles of single-circuit telephone line were constructed and 12 miles of single-circuit telephone line were restrung.

NORTHERN ONTARIO PROPERTIES

Telephone

A 150-pair communication cable was erected between Moose Lake Transformer Station and Moose Lake Condenser Station. The construction of 85 circuit miles of telephone line was completed. Permanent private branch telephone exchanges were installed at Hound Chute Generating Station and Fountain Falls Generating Station. The temporary private branch exchange at the Northeastern Regional Office was replaced by a permanent one and the installation of a new, automatic telephone exchange was completed. A temporary private branch exchange was installed at Pine Portage Generating Station.

ALL SYSTEMS

Radio

The establishment of a mobile radio network to provide emergency service for high-voltage transmission lines in southern Ontario has progressed to the point where there are now ten fixed frequency-modulation radio stations in operation at Windsor, Chatham, London, Burlington, Niagara Falls, Toronto, Markham, Belleville, Merivale, and Plantagenet. There are 69 radio-equipped line-maintenance trucks scattered throughout the Western, West Central, Toronto, Niagara, East Central, and Eastern Regions.

A fixed frequency modulation station was completed at Port Arthur and five line trucks were equipped with radio to provide emergency service for the distribution lines around Port Arthur.

A frequency modulation radio-telephone link was established between Merivale and Masson.

A mobile frequency-modulation radio-control system was installed for the Frequency Standardization Division consisting of six fixed stations, three portable stations, and fifteen mobile stations. This radio system provides the necessary links for co-ordination of switching and changeover operations.

APPENDIX V

ACTS AND ORDERS IN COUNCIL

AT THE 1950 Session of the Legislative Assembly of the Province of Ontario one Act respecting The Hydro-Electric Power Commission of Ontario was passed. The said Act is reproduced here in full. The short title of the Act is as follows:

The Power Commission Amendment Act, 1950, Chapter 55.

ACT

CHAPTER 55

An Act to amend The Power Commission Act.

Assented to March 24th, 1950.

Session Prorogued April 6th, 1950.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

Rev. Stat.,
c. 62,
amended.

1. *The Power Commission Act* is amended by adding thereto the following section:

Fiscal
year.

6b. The fiscal year of the Commission for the year 1950 shall consist of fourteen months commencing on the 1st day of November, 1949, and ending on the 31st day of December, 1950, and thereafter the fiscal year of the Commission shall include the period from the 1st day of January to the 31st day of December in the same year.

2. Section 7 of *The Power Commission Act*, as amended by Rev. Stat., c. 62, s. 7, re-enacted. section 3 of *The Power Commission Amendment Act, 1946* and section 2 of *The Power Commission Amendment Act, 1949*, is repealed and the following substituted therefor:

- 7.—(1) The Commission shall after the close of each Annual report. fiscal year file with the Provincial Secretary an annual report upon the affairs of the Commission.
- (2) The annual report shall be signed by the chairman Signing of report. or vice-chairman of the Commission.
- (3) The Provincial Secretary shall submit the report to Tabling of report. the Lieutenant-Governor in Council and shall then lay the report before the Assembly if it is then in session, or if not, at the next ensuing session.

3. Section 54 of *The Power Commission Act* is repealed and Rev. Stat., c. 62, s. 54, re-enacted. the following substituted therefor:

- 54.—(1) Notwithstanding anything in *The Public Utilities Act*, or in any other Act, the council of a township By-laws may be passed by township re, may from time to time pass by-laws,—
 - (a) for establishing, with the approval of the Com- establishing areas in township; mission, an area in the township to which any of the by-laws passed under clauses *b*, *c* and *d* may have effect, or establishing the whole township as such an area;
 - (b) for entering into a contract with the Commission, contract with Commission for power; with the assent of the municipal electors of the area qualified to vote on money by-laws, for the supply of electrical power or energy for the use of the municipality and the inhabitants thereof in any area established under clause *a*;
 - (c) for acquiring real and personal property and works; acquiring, constructing, reconstructing, extending and operating works for the development, transmission and distribution of electrical power or energy in the municipality;
 - (d) for exercising, for such purposes, any of the general powers. powers which may be exercised by a town under the authority of *The Municipal Act*, *The Local Improvement Act*, *The Public Utilities Act*, or Rev. Stat., cc. 266, 269, 286. this Act.

Alteration
of areas.

- (2) The council, with the approval of the Commission, may from time to time, by by-law, enlarge the boundaries of any area established under clause *a* of subsection 1, or otherwise alter its boundaries or incorporate with it any other established area.

Debenture
issue.

- (3) When the council has passed a by-law under clause *a* of subsection 1 or under subsection 2, it may issue debentures for the purposes of clause *b*, *c* or *d* of subsection 1, and levy a special rate for the amounts required to be raised on account of principal or sinking fund and of interest for the payment of such debentures in the area so established, enlarged or altered, and notwithstanding anything in *The Municipal Act* or in any other Act, it shall not be necessary to obtain the assent of the electors to the by-law for the issue of such debentures.

Commission
for con-
struction
and manage-
ment of
works.

- (4) The council of a township which has entered into a contract with the Commission for the supply of electrical power or energy for the use of the municipality and the inhabitants thereof in any area established under clause *a* of subsection 1 may by by-law provide for entrusting the construction of the works and the control and management thereof to a commission to be called "The Hydro-Electric Commission of (*naming the area*) of (*naming the township*)" or if the area comprises the whole township, "The Hydro-Electric Commission of the Township of (*naming the township*)".

Assent of
electors
not neces-
sary.

- (5) It shall not be necessary to obtain the assent of the electors to the establishment of any commission under subsection 4, but the commissioners elected shall be residents of the area for which they are elected commissioners.

Disestablish-
ment of
commission
on incorpora-
tion with
other areas.

- (6) Upon the incorporation of any area in another area the commission, if any, for the area so incorporated shall be deemed to be disestablished and the commission, if any, for the other area shall be a commission for the combined area.

Revenue of
commission.

- (7) Subject to subsection 8, where a commission has been established under this section and the members thereof have been elected, all the powers, rights, authorities and privileges which by *The Public Utilities Act* are conferred upon a municipal corporation in respect of electrical power or energy shall, while the by-law for establishing it remains in force, be exercised by the commission within the area for

Rev. Stat.,
c. 286.

which it was established or within the area to which such area may have been enlarged and not by the council of the corporation.

- (8) Nothing in this section shall divest the council of its authority with reference to providing the money required for the works, and the treasurer of the municipality shall, upon the certificate of the commission, pay out any money so provided, and nothing in this Act shall divest the council of the rights and powers conferred upon it by *The Local Improvement Act*. Council to provide money for works.
Rev. Stat., c. 269.
- (9) Section 37, 38, 39, 42 and 43 of *The Public Utilities Act* shall apply to every commission established under this section. Provisions of Rev. Stat., c. 286 to apply.
- (10) A by-law establishing a commission under this section may be repealed by the council at any time with the consent of The Hydro-Electric Power Commission of Ontario and it shall not be necessary to obtain the assent of the electors to a repeal. Repeal of by-law establishing commission.
- (11) Upon the repeal of a by-law establishing a commission under this section, the control and management of the works shall be vested in the council, and the commission shall cease to exist. Reverting of works.

4. Subsection 5 of section 56 of *The Power Commission Act*, as re-enacted by section 4 of *The Power Commission Amendment Act, 1948*, is amended by striking out the words "with the approval of the Lieutenant-Governor in Council" in the first and second lines, so that the subsection shall read as follows: Rev. Stat., c. 62, s. 56, subs. 5 (1948, c. 69, s. 4), amended.

- (5) The Commission may contract with a railway company or power or transmission company for the use of its right-of-way and property for the purposes of the Commission. Use of right-of-way of railway, power and transmission companies.

5. *The Power Commission Act* is amended by adding thereto the following section: Rev. Stat., c. 62, amended.

80a.—(1) Notwithstanding anything in this or any other Act the council of a township which has entered into a contract with the Commission under this Part, may, without petition and without submitting a by-law to a vote of the electors, enter into a contract with the Commission for the lighting by the Commission of highways in the municipality and pursuant to such contract, the Commission, on behalf of the corporation, may acquire, construct, extend, Lighting of highways without a petition.

reconstruct, hold, maintain, operate and administer all works necessary for the lighting of the highways and a by-law of the corporation authorizing the execution of the contract by the corporation need not provide for the issue of debentures of the corporation to meet the cost of construction and installation of the works necessary for this purpose.

Street
lighting
works.

- (2) All the works in subsection 1 shall be deemed street lighting works and shall not form any part of the primary or secondary lines in a rural power district.

Part II
as to annual
payment
to apply.

- (3) The provisions of Part II with respect to the annual payments to be made by any corporation which has entered into a contract with the Commission shall apply to any contract entered into under this section and shall extend to all works constructed under such contract.

Charging
of cost.

- (4) Notwithstanding anything in this or any other Act the cost incurred by the corporation under this section shall be paid by the corporation and be chargeable to the municipality as a whole and the assent of the electors to a by-law for such purpose shall not be required.

Rev. Stat.,
c. 62, s. 87,
amended.

6. Section 87 of *The Power Commission Act*, as amended by section 5 of *The Power Commission Amendment Act, 1944*, is further amended by adding thereto the following subsections:

Appointment
of persons
or associa-
tions to in-
spect and
test.

- (2a) The Commission may appoint persons or associations having, in the opinion of the Commission, special knowledge and facilities to inspect, test and report upon any of the works or matters mentioned in subsection 1.

Approval by
adoption of
report.

- (2b) The Commission may approve of any of the works or matters mentioned in subsection 1 by adopting the report made pursuant to subsection 2a or otherwise as the Commission may deem advisable.

Rev. Stat.,
c. 62, s. 92,
subs. 2,
amended.

7.—(1) Subsection 2 of section 92 of *The Power Commission Act* is amended by adding at the end thereof the words “and a contract with an insurance corporation for the purpose of this section may protect more than one municipal corporation or municipal commission as the insured thereunder”, so that the subsection shall read as follows:

Amount
and terms.

- (2) The insurance shall be for such amount and upon such terms and conditions as the Commission may direct and approve and a contract with an insurance

corporation for the purpose of this section may protect more than one municipal corporation or municipal commission as the insured thereunder.

(2) The said section 92 is further amended by adding thereto the following subsection:

Rev. Stat.,
c. 62, s. 92,
amended.

(5) Where any municipal corporation or commission is in Schedule 1 of *The Workmen's Compensation Act* and is paying assessment to the Workmen's Compensation Board, notwithstanding any other provision in this Act, it shall not be necessary for such municipal corporation or commission to maintain insurance against injury to the person of employees.

Where insurance not
necessary.

Rev. Stat.,
c. 204.

8. Schedule A to *The Power Commission Act*, as re-enacted by section 18 of *The Power Commission Amendment Act, 1946*, is amended by striking out the word "year" in the first line and inserting in lieu thereof the words "the twelve-month period".

Rev. Stat.,
c. 62,
Sched. A
(1946,
c. 73, s. 18),
amended.

9. This Act shall come into force on the day it receives the Royal Assent.

Commence-
ment of Act.

10. This Act may be cited as *The Power Commission Amendment Act, 1950*.

Short title.

ORDERS IN COUNCIL

The agreements between The Hydro-Electric Power Commission of Ontario and municipalities, corporations, and persons approved by Orders in Council during 1950 are listed hereunder.

CO-OPERATIVE SYSTEMS

VILLAGES

Erin	Mar. 14, 1950
Magnetawan	Dec. 20, 1950
Merrickville	July 19, 1950

TOWNSHIPS

Brock	Dec. 20, 1950
Burleigh and Anstruther	Aug. 1, 1950
Charlottenburg	Dec. 20, 1950
Clarke	Dec. 20, 1950
Essa	Dec. 20, 1950
Georgina	July 19, 1950
Glamorgan	Dec. 20, 1950
Gloucester	Dec. 4, 1950
Goulburn	Dec. 20, 1950
Greenock	Feb. 8, 1950
Head, Clara, and Maria	Jan. 13, 1949

Kenyon (Street Lighting— Greenfield)	July 19, 1950
Kenyon (Street Lighting— Dunvegan)	July 19, 1950
King	Jan. 15, 1951
Kitley	Dec. 20, 1950
Lochiel (Street Lighting— Glen Sandfield)	July 19, 1950
Lochiel (Street Lighting— Dalkeith)	July 19, 1950
Mariposa	Dec. 20, 1950
Melancthon	Dec. 20, 1950
Monmouth	Dec. 20, 1950
Rear of Yonge and Escott	July 19, 1950
Russell	April 4, 1950
Smith	Mar. 14, 1950
Storrington	Mar. 7, 1950

CORPORATIONS

Caldwell Linen Mills Limited.....	July 12, 1950
Canada Cement Company, Limited.....	Aug. 25, 1950
Canada Starch Company, Limited.....	Aug. 9, 1950
Canadian Industries Limited.....	Dec. 12, 1950
Canadian Industries Limited.....	Dec. 19, 1950
Dominion Magnesium Limited.....	Oct. 11, 1950
Exolon Company Incorporated.....	Dec. 20, 1950
General Motors Diesel Limited.....	Jan. 31, 1950
Gypsum, Lime and Alabastine, Canada, Limited.....	Aug. 25, 1950
His Majesty the King in right of Canada, represented by the Minister of Trade and Commerce herein acting through Canadian Arsenals Limited.....	Sept. 19, 1950
His Majesty the King in right of Canada as represented herein by the Honourable the Minister of National Defence.....	April 6, 1950
Lionite Abrasives Limited.....	Aug. 25, 1950
Maple Leaf Milling Company, Limited.....	Nov. 28, 1950
Niagara Mohawk Power Corporation.....	July 5, 1950
Norton Company.....	Nov. 8, 1950
Pebbles Products Limited.....	July 19, 1950
Thompson-Heyland Lumber Limited.....	April 24, 1950

NORTHERN ONTARIO PROPERTIES

TOWN		Tisdale.....	May 23, 1950
Cache Bay.....	May 31, 1950	Whitney.....	Feb. 3, 1950

TOWNSHIPS		IMPROVEMENT DISTRICTS	
Caldwell.....	June 13, 1950	Atikokan.....	Oct. 3, 1950
Morley and Pattullo.....	July 19, 1950	Kingsford.....	April 19, 1950
Strong.....	May 23, 1950	McGarry.....	Aug. 1, 1950

CORPORATIONS

Armistice Gold Mines Limited.....	Feb. 27, 1950
Boymar Gold Mines Limited.....	May 15, 1950
Campbell Red Lake Mines Limited.....	July 19, 1950
Central Patricia Gold Mines Limited.....	Feb. 17, 1950
Cochenour-Willans Gold Mines Limited.....	Nov. 13, 1950
Crowshore Patricia Gold Mines Limited.....	Mar. 28, 1950
Dome Mines Limited.....	July 18, 1950
McKenzie Red Lake Gold Mines Limited.....	Feb. 17, 1950
McKenzie Red Lake Gold Mines Limited.....	Oct. 16, 1950
New Jason Mines Limited.....	July 19, 1950
Omega Gold Mines Limited.....	April 27, 1950
Pickle Crow Gold Mines Limited.....	June 8, 1950
Shag Silver Mines Limited.....	May 23, 1950
Spruce Falls Power and Paper Company, Limited.....	Dec. 12, 1950

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Forty-Fourth Annual Report

of

The Hydro-Electric Power Commission

of Ontario

1951



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Toronto

Ontario

Canada



THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

1951

ROBERT H. SAUNDERS, C.B.E., Q.C.
Chairman

HON. GEORGE H. CHALLIES, M.L.A.
1st Vice-Chairman

W. ROSS STRIKE, Q.C.
2nd Vice-Chairman

RICHARD L. HEARN, D.ENG.
General Manager
and Chief Engineer

ERNEST B. EASSON,
Secretary

HEAD OFFICE
620 University Avenue, Toronto, Ontario

LETTER OF TRANSMITTAL

TORONTO, ONTARIO, JUNE 30, 1952

THE HONOURABLE LOUIS O. BREITHAUPT

Lieutenant-Governor of Ontario

SIR:

It is my privilege as Chairman of The Hydro-Electric Power Commission of Ontario to present its Forty-fourth Annual Report for the year ended December 31, 1951.

I know that throughout the organization of the Commission there is a keen awareness of the responsibilities that rest with Hydro and the vital part it plays in the life of the Province. In consequence I present this Report with a sense of genuine pride in the success with which the Commission has met the challenge of its responsibilities to the people of this Province during the year. This result has been obtained in large measure through the efforts and teamwork of all levels and groups of the staff of our great enterprise.

I should like to express my appreciation of the Prime Minister's continuing interest in the Commission and its activities. This was exemplified on June 19, 1951, when he named an Advisory Council of nine widely known and highly capable people, comprising eight men and one woman. The members of this Council, drawn from a cross-section of Ontario's life and industry, will, I am sure, provide the Commission with a broad, general viewpoint which will be of great value.

In a year of continued expansion in all fields, when the gross quantity of goods and services produced in Ontario rose by about four per cent, primary

power requirements set a new record, exceeding that of the previous year by eleven per cent. The efforts of all at Hydro were directed towards meeting and, where possible, anticipating these rising requirements.

To ensure adequate service to all its customers, Ontario Hydro brought into service during 1951 nine generating units at four major generating stations. These were the eighth and final unit at Des Joachims, the last six generating units at Chenaux, the first 25-cycle steam-turbo unit at the Richard L. Hearn Station, Toronto, and a 60-cycle steam-turbo unit at the J. Clark Keith Station, Windsor. As a result of the generating capacity added, offset in part by a reduction in the amount of power available from purchased-power sources, the combined dependable peak capacity of all systems increased 211,450 kilowatts or 7.7 per cent.

Of particular interest was the initial operation of the new fuel-electric stations at Toronto and Windsor, the largest to be constructed in Canada. They will, during the ensuing months, add materially to the Commission's power resources. Their contribution in the form of greater security must compensate for the substantially higher cost of electric power derived from steam.

Since the inception of the Hydro's tremendous expansion program in 1945 the dependable peak capacity of all systems has been increased by more than one million kilowatts.

To bring the power from new generating stations to the customers throughout Ontario has required the construction of an extensive network of additional transmission and transformation facilities. During 1951 alone, 413 circuit miles of high-voltage lines were constructed, 11 new transformer stations with a total capacity of 328,000 kilovolt-amperes were completed, and 673,000 kilovolt-amperes of capacity were added to 22 existing transformer stations.

Financial

Hydro's great expansion program to provide Ontario with new generating stations, transmission lines, transformer stations, new rural distribution lines, and other productive assets began over six years ago and has continued unabated. To the end of December 1951 the total expenditure on the program amounted to \$651,054,956 and an additional expenditure of \$322,155,536 had been planned and approved.

The money for this tremendous expansion was provided largely by institutional and private investors through the purchase of bonds issued by and for the Commission in the total sum of \$595,000,000. Of this amount, \$495,000,000 were sold in Canada. It is, therefore, gratifying to record and acknowledge this demonstration of confidence in both the Province and the Commission.

The assets of the Commission after deducting depreciation reserves and provincial grants reached a total of \$1,036,029,755 at the end of 1951. This figure does not include the assets of the 324 associated municipalities. At December 31, 1951, these municipalities had assets amounting to \$329,051,074 including the equity in the Commission's systems.

In keeping with the substantial growth of the assets, the reserves of the Commission for purposes of contingencies, stabilization of rates, and sinking fund increased to \$242,732,559 as at December 31, 1951, and similarly the reserves and surplus of the municipalities at the end of 1951 were \$132,453,575, making a total of Commission and municipal reserves of \$375,186,134.

During 1951 revenues of the Commission from its Southern Ontario and Thunder Bay Systems reached a record total of \$93,921,606. From these revenues \$29,748,801 have been set aside as reserves for depreciation, contingencies, frequency standardization, stabilization of rates, and sinking fund.

In 1951 in accordance with our duty of supplying power at cost, we were able to refund to the cost customers in the Southern Ontario and Thunder Bay Systems a total of \$2,520,899—an amount that will assist them in the financing of expansion and rehabilitation plans. This satisfactory financial result was made possible largely because there has been a ready market for practically every kilowatt-hour available to the Commission. At the same time, during 1951, the Commission did not have to meet substantial increases in cost of power associated with steam generation.

The municipalities operating their own distribution systems under cost or fixed-rate contracts with the Commission numbered 324 in the past year. The earnings of these municipalities in 1951 totalled \$82,311,681.

Frequency Standardization

The Commission's program for standardizing the frequency of its Southern Ontario System proceeded during 1951 with the active co-operation of the municipalities and the Commission's direct industrial customers. More than 449,000 frequency-sensitive items were standardized on behalf of 92,364 customers. In 29 municipalities standardization in advance of the main program has been undertaken by the municipal utilities themselves primarily in order to be able to serve load growth at 60 cycles. This will result in a saving of time and money in the over-all standardization program.

Rural

The year 1951, marking the thirtieth anniversary of the inception of the Provincial Government's far-sighted assistance to rural electrification, served to emphasize the all-important contribution Hydro has made to Ontario's agricultural development and to the welfare and happiness of its rural citizens. The Provincial grant-in-aid amounting to 50 per cent of the capital cost of lines and equipment for the supply of power relates solely to the initial capital investment for distribution facilities in rural operating areas. For the past thirty-year period a total of over \$127 million, including Provincial grant, has been spent by the Commission on rural electrification.

Throughout 1951 the Commission continued its program to bring the benefits of Hydro service to the farm and the farm home. By the end of the year, the number of miles of rural distribution lines had increased from 34,793 to 38,198, and the number of customers, after allowing for the transfer of about 6,000 to municipal systems, showed a net increase of 25,795, so that Hydro was serving a total of 318,606 customers in the Rural Power District at the close of the year.

In 1951, the sum of the 103 coincident monthly peak loads of the rural operating areas reached a maximum of 271,354 kilowatts. This represented an increase of 16.0 per cent over the previous year and nearly 285 per cent over 1941. The average energy consumption in 1951 for farm customers was 287 kilowatt-hours a month as compared with 266 kilowatt-hours in 1950, and 141 kilowatt-hours in 1941. Owing to this substantial increase in the average consumption by farm services, the average cost per kilowatt-hour in 1951 for such services was 1.97 cents. In 1941 it was 2.51 cents. This represents a 10-year decrease in the average cost per kilowatt-hour of 21.5 per cent.

On the basis of the Dominion census of 1941, approximately 47 per cent of the farms of the Province were enjoying the benefits of electricity in 1947. In 1951 this percentage had risen to 85 as calculated on the latest information released from the 1951 census.

Urban and Industrial

The consumption of power by all classes of customer continued to increase. Domestic customers in the municipalities served by the Commission directly or through municipal electrical utilities consumed during 1951 an average of 330 kilowatt-hours per month, an increase of 60.98 per cent over the corresponding period for 1945. The average commercial light customer in these municipalities consumed 940 kilowatt-hours per month, 49.92 per cent more than in 1945. These average figures of consumption are higher than in any previous year and are illustrative of the unsurpassed standard of living that people in Ontario enjoy.

A very significant fact in the rates for domestic and commercial light service is that, despite the upward revisions that have occurred in recent years, the average cost of supplying a kilowatt-hour of domestic energy has decreased from 1.28 cents in 1938 to 1.04 cents in 1951, a decrease of 18.75 per cent. Likewise, the average cost of supplying a kilowatt-hour to commercial light customers has decreased from 1.62 cents in 1938 to 1.40 cents in 1951, a reduction of 13.58 per cent.

The large volume of sales by the Commission in recent years, because it has resulted in a high revenue per unit of plant, has been instrumental in lowering the average cost per kilowatt-hour. However, as desirable power reserves become established and the higher costs of recently constructed facilities are reflected in the cost of power, this average cost per kilowatt-hour will undoubtedly be affected. In particular the higher costs attributable to the operation of the steam generating stations at Toronto and Windsor will come into full effect in 1952 and 1953.

Although average costs per kilowatt-hour have been maintained below those of many previous years, the Commission, with the foregoing factors in mind and confronted with a continuing rise in the costs of labour and materials, is budgeting for higher costs of operation in the years immediately ahead.

There is every indication that the upward trend in the demand for power will continue. The sources of energy from which the Commission can supply this demand at low cost are to be found on the Niagara and St. Lawrence

Rivers. The Commission will do its utmost to ensure the fullest possible development of these resources for the benefit of its customers throughout the Province.

Niagara Project

In January 1951, less than three months after the final ratification of the Niagara Diversion Treaty, the Commission commenced construction of the Sir Adam Beck-Niagara Generating Station No. 2. I should like to pay tribute to the very fine co-operation between the governments of Canada and the United States, which made possible the speedy ratification of this vital Treaty. Without this co-operation, construction of this highly essential project could not have been undertaken.

By recently authorizing the installation of five additional generating units the Commission has given its approval to the full plan outlined in the Engineering section of the accompanying report. This immense hydro-electric generating station, the largest ever undertaken in the history of Ontario Hydro, will, when completed, have an installed capacity of 1,200,000 horsepower.

Construction plans include a power-house adjacent to the existing Sir Adam Beck-Niagara Generating Station No. 1 at Queenston. Two pressure tunnels roughly parallel to each other will extend for part of their $5\frac{1}{2}$ miles of length under the city of Niagara Falls and will convey water from the Niagara River to an open-cut canal. The canal will then convey the water $2\frac{1}{4}$ miles to the forebay of the power-house. Economies have been effected in the construction of the tunnels by making the five access shafts common to both excavations.

The Commission and its contractors have made rapid progress during the year and, I am happy to say, this station is scheduled for initial operation in 1954.

Press and Radio

It is my emphatic belief that one of the fundamental factors in relation to the success of Hydro is the policy of keeping the people of Ontario fully informed at all times on the progress and operations of the Commission. This has been accomplished not only through the Annual Report and other reports released from time to time by the Commission but also through the close co-operation of both the press and radio. I remember with the deepest appreciation the very helpful assistance which Hydro received during 1951 from the daily and weekly newspapers of the Province, magazines, technical press, and also the radio stations.

Personnel

Hydro's substantial accomplishments during the past year have been possible only because of the loyalty and conscientious efforts on the part of the staff, to whom I wish to make grateful acknowledgement. At the end of the year there was a total of 20,079 employees on the Commission's staff, 11,258 having regular status and 8,821 being employed on a temporary basis. In addition, there were 5,855 working for Hydro on the staffs of contractors and consultants.

Again it is my pleasure to record how much I have been aware of the substantial contribution to the welfare of Hydro that my colleagues on the Commission, the Honourable George H. Challies and Mr. W. Ross Strike, Q.C., have made during the past year. I also acknowledge the unceasing efforts of Dr. Richard L. Hearn, the General Manager and Chief Engineer, and of his able associates and the other officers of the Commission in the performance of their work and responsibilities.

Respectfully submitted,

ROBERT H. SAUNDERS,

Chairman

LETTER OF SUBMITTAL BY THE GENERAL MANAGER AND CHIEF ENGINEER

TORONTO, ONTARIO, JUNE 27, 1952

ROBERT H. SAUNDERS, ESQ., C.B.E., Q.C., *Chairman*,
and COMMISSIONERS

SIRS:

I herewith submit the Forty-fourth Annual Report of The Hydro-Electric Power Commission of Ontario for the year ended December 31, 1951.

The Report relates to the Commission's activities in supplying municipal, rural, and direct industrial customers both on behalf of the co-operative systems and under its trusteeship of the Northern Ontario Properties for the Province.

The year has seen new records established in production and consumption. Capacity, revenues, investment, and number of customers served have all increased. It was a year that presented the challenge of new problems but these problems were successfully met.

May I acknowledge the loyalty and industry of the staff who have contributed so effectively to the success of the Commission's operation.

Respectfully submitted,

RICHARD L. HEARN,
*General Manager
and Chief Engineer*

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FORTY-FOURTH ANNUAL REPORT
OF
**The Hydro-Electric Power Commission
of Ontario**

**FOREWORD
and Guide to the Report**

THE Hydro-Electric Power Commission of Ontario is a corporate body administering a province-wide co-operative enterprise to produce and distribute electric power. The members of the Commission, a Chairman and two Vice-Chairmen, are appointed by the Lieutenant-Governor-in-Council to hold office during pleasure. One Commissioner must be a member, and two may be members, of the Executive Council.

The Commission was created in 1906 by an enactment of the Ontario Legislature after consideration of recommendations made by advisory commissions which had been appointed in response to public demand that the water powers of Ontario should be conserved and developed for the benefit of all the people of the Province.

The Commission operates under the authority of The Power Commission Act (7-Edward VII c. 19) passed in 1907 as an amplification of the Act of 1906 and subsequently modified by numerous amending acts (Revised Statutes of Ontario, 1950, c. 281). It is a separate entity, a self-sustaining public concern endowed by The Power Commission Act with broad powers to produce, buy, and distribute electricity, and to perform certain regulatory functions with respect to the activities of the electrical utility commissions of the member municipalities. The enterprise represented by the Commission is generally known and referred to as the Ontario Hydro.

Historical Note

The history of The Hydro-Electric Power Commission of Ontario since its founding in 1906 may for convenience be divided into two main parts, the dividing point being the death of Sir Adam Beck in 1925. During the whole of the first period, Sir Adam as Chairman was a gifted leader and champion who made Hydro essentially what it remains today. Following the lines which he so well established, the Commission during the years following his death has developed in organization and resources at a rate that its first Chairman might well have thought incredible.

In step with the growth of the enterprise and the extension of its service throughout the Province has gone the integration and consolidation of its component systems. During the thirties the Commission undertook to operate in trust for the Provincial Government what are called the Northern Ontario Properties. These were a group of systems, not interconnected,

which mainly served mining and pulp-and-paper industries. In the southern part of the Province the process of consolidation of systems begun in 1924 culminated in 1944 in the formation of the Southern Ontario System from the former Niagara, Georgian Bay, and Eastern Ontario Systems.

The growth in demand that marked the latter years of the forties has taxed the power resources of the Commission to the full. In the construction program inaugurated in 1945 every effort has been directed towards meeting and anticipating requirements as they develop. Between the years 1947 and 1950 the dependable peak capacity of the systems was increased by 733,500 kilowatts, principally through the erection of six new generating stations. The year 1951 saw the completion of the largest of these, the great Des Joachims Generating Station, and also the full operation of the new Chenaux Generating Station, both on the Ottawa River. In addition the opening of two fuel-electric generating stations, the Richard L. Hearn Generating Station in Toronto and the J. Clark Keith Generating Station in Windsor, marked a significant step in the Commission's program of power development. These two stations, when each is operating with four units at 60 cycles, will have an installed capacity of 664,000 kilowatts.

The Sir Adam Beck-Niagara Generating Station No. 2 now forms the major capital undertaking of the Commission. Begun in April 1951, it is situated immediately to the west of the former Queenston Generating Station, more recently known as Sir Adam Beck-Niagara Generating Station No. 1.

A major step was taken by the Commission in 1949 when a program of frequency standardization was initiated to convert the Niagara Division of the Southern Ontario System from 25- to 60-cycle operation. This is a large and very complex operation involving many skills and requiring much detailed planning over large areas for extended periods of time.

Organization

The organization of the Commission covers three main functions—policy making, policy interpretation, and action. The Commissioners constitute the final authority on policy decisions. The General Manager and Chief Engineer is the principal executive officer and is responsible for the carrying out of Commission policy and decisions, principally through the means of the two main branches of the organization—Engineering and Administration—each of which is headed by an Assistant General Manager.

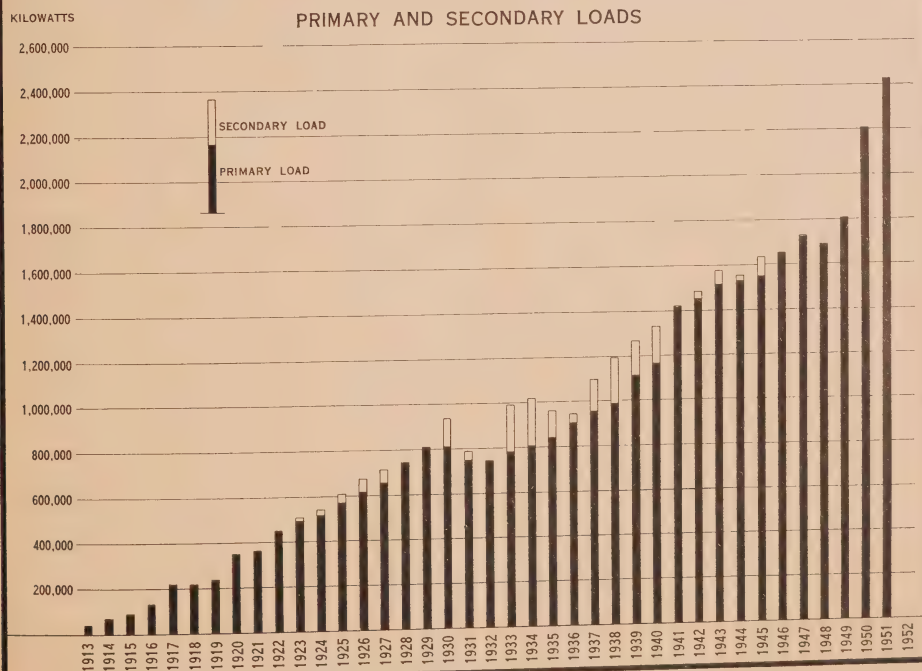
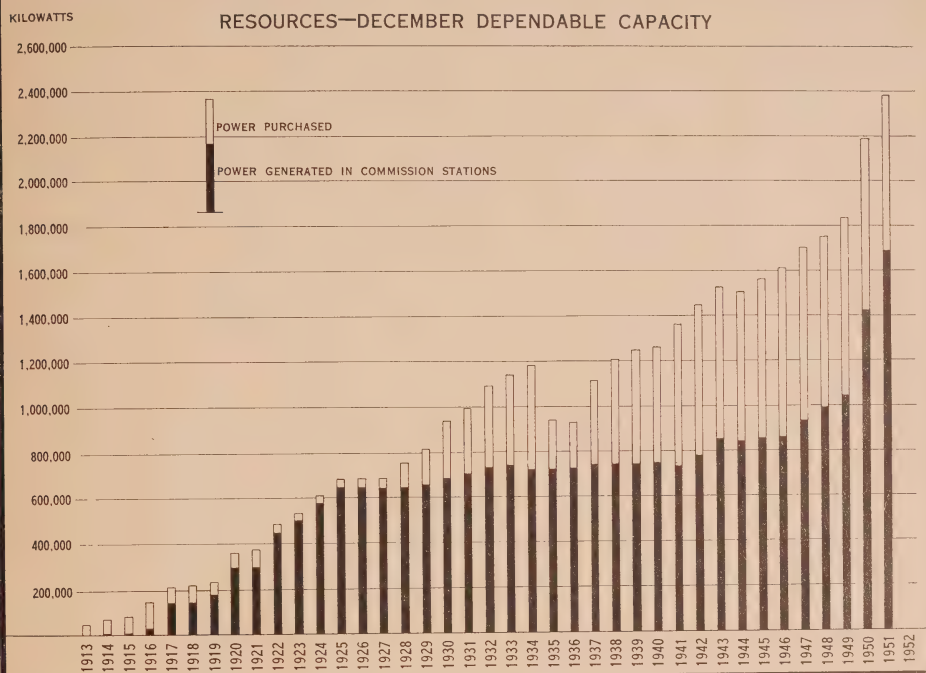
Systems

In 1951 three systems were in operation, the Southern Ontario System, the Thunder Bay System, and the Northern Ontario Properties.

The first and second of these are referred to as the co-operative systems. Each serves a group of municipalities receiving power at cost under contracts established according to the provisions of The Power Commission Act. The Commission also serves directly certain industrial customers and the rural customers within these systems. The Southern Ontario System serves the older and more populous part of Ontario, the triangular peninsula enclosed by Lakes Huron, Erie, and Ontario, and the St. Lawrence and Ottawa Rivers. The Thunder Bay System serves a smaller area at the lakehead on the northwestern shore of Lake Superior.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

FORTY YEARS RECORD — SOUTHERN ONTARIO SYSTEM



The Northern Ontario Properties embraces both the Northeastern Region and the Northwestern Region, excluding the Thunder Bay System. Within the Northeastern Region lie the geographical Districts of Nipissing, Sudbury, Manitoulin, Algoma, Timiskaming, and Cochrane. The various transmission systems serving these districts have been completely integrated since 1949. In 1950 a tie-line between North Bay and the Otto Holden Generating Station, by making possible the interchange of power between the Northern Ontario Properties and the Southern Ontario System, materially increased the security of both systems. In the Northwestern Region the power resources of the Patricia District and those of the Thunder Bay System have been connected. This has made the Patricia District and the areas served by the Thunder Bay System in effect a wholly integrated system.

Financial Features of the Co-operative Systems

The basic principle governing the financial operations of the undertaking is that electrical service is provided by the Commission to the municipalities, and by the municipalities to the customers at cost. Cost includes not only all operating and maintenance charges, interest on capital investment, and reserves for depreciation, for contingencies and obsolescence, and for stabilization of rates, but also a reserve for a sinking fund to retire the Commission's capital debt.

The undertaking from its inception has been entirely self-supporting with the exception that the Provincial Government through grants-in-aid provides for 50 per cent of the capital cost of the rural distribution lines. This is done in pursuance of the Province's long-established policy of assisting agriculture. The Province also guarantees the payment of principal and interest of all bonds issued by the Commission and held by the public.

In 1944 rates for rural service were revised. With a few exceptions all townships and 150 of the smaller villages are now served as an amalgamated rural division of Hydro service with a uniform rate structure. Thus, no matter where rural service is supplied in Ontario by Hydro, all rural customers, for the same class of service with the same consumption of electricity, pay the same amount.

The undertaking as a whole involves two distinct phases of operations as follows:

The *first* phase of operations is the provision of power—either by generation or purchase—and its transformation, transmission, and delivery in *wholesale* quantities to individual municipal utilities, to large industrial customers, and to rural power districts. This phase of the operations is performed by The Hydro-Electric Power Commission of Ontario.

The *second* phase of operations is the *retail* distribution of electric energy to customers within the limits of the areas served by the various municipal utilities and throughout the rural areas of the Province. For the consolidated rural power districts the Commission not only provides the power wholesale, but also—on behalf of the respective townships—attends to all physical and financial operations connected with the retail distribution of energy to the customers within the rural operating areas into which the consolidated rural power districts are divided for administrative purposes.

In cities, towns, many villages, and certain thickly populated areas of townships, retail distribution of electric energy provided by the Commission is in general conducted by municipal commissions under the general supervision of The Hydro-Electric Power Commission of Ontario as provided for in The Power Commission Act and The Public Utilities Act.

Fiscal Period

Formerly the Commission's fiscal year included the period November 1 to October 31. In order that the fiscal year would coincide with the calendar year of January 1 to December 31, the 1950 fiscal period included the fourteen months from November 1, 1949 to December 31, 1950. This 1951 Annual Report of the Commission covers the fiscal period from January 1 to December 31, 1951. Where comparisons are made throughout the Report with statistics of 1950, the 1950 figures have been reduced to a twelve-month basis.

Guide to the Report

Section I, "Operation of the Systems," describes and discusses the production, purchase, and distribution of power during the fiscal year. Details are given of loads carried, demands, water resources, weather conditions, and other factors affecting operations in the three systems. There are also reports on the maintenance of the systems and on forestry work.

Section II, "Financial Statements," contains the Commission's balance sheets, statements of operations, and tables showing the funded debt and advances from the Province of Ontario. These together with supporting schedules to be found in Appendix II give a comprehensive picture of the financial organization and condition of the co-operative systems and the Northern Ontario Properties.

Section III, "The Commission and its Customers," gives a classification of the municipalities and direct customers served by the Commission. It includes tables and graphs depicting the growth in domestic and commercial service within urban municipalities. Reports from the regions relating to municipal activities contain brief notes on such events as the construction of new distribution facilities and the admission of new municipalities. Reports on the Commission's frequency standardization program, direct service to industries, and electrical inspection activities are also included in this section.

Section IV, "Rural Electrical Service," reports on the growth of electrical service throughout rural Ontario. Trends in the cost of this service are graphically presented.

Section V, "Engineering and Construction," tells of the construction of generating and distributing facilities, giving data and descriptions of the more important projects.

Section VI, "Research and Testing Activities," contains reports on the various projects to which some forty panels of engineers and technical men devoted full or part time with a view to increasing the efficiency, economy, and safety of the Commission's operations.

Section VII, "Personnel Administration," is devoted to a brief description of the Commission's staff and of some recent developments affecting its members.

Section VIII, "Municipal Electrical Accounts," is the largest in the Report. In a series of four tabular statements, it presents the balance sheets, operating reports, rates, and consumption statistics of 324 municipalities served by the Commission.

Appendix I—Operations, contains a table of generating station capacities and outputs, and a table showing the loads and consumption of energy of the Commission's municipal customers.

Appendix II—Financial, supports the financial statements contained in Section II.

Appendix III—Rural, gives the details of rural rates.

Appendix IV—Engineering and Construction, provides details on the changes and additions in the Commission's transmission and distribution systems.

Appendix V—Legislative, reproduces amendments to The Power Commission Act and a list of agreements approved.

The attention of the reader is drawn to the comprehensive index at the end of the Report.

SECTION I

OPERATION OF THE SYSTEMS

Additions to Generating Capacity—Initial Operation of Large Fuel-Electric Stations—Waterflows Above Normal

IT was possible to look back at the end of the year with satisfaction on another twelve-month period of accelerated expansion. Service to all customers was maintained at a relatively high level; by reducing deliveries of "at-will" and "interruptible" power the Commission was able to meet primary demands throughout the year without restricting the use of electricity by its municipal and rural power customers.

In 1951 the total amount of primary energy supplied to municipalities other than those served by rural operating areas surpassed that supplied in 1950 by 11.6 per cent. The corresponding increase in total energy supplied to direct industrial customers and rural power districts was 16.8 and 16.4 per cent respectively.

In 1951 among those receiving the benefits of Hydro for the first time was the remote community of Killarney on the north shore of Georgian Bay. Power was also made available to the community of Hearst.

The Commission brought into service during the year the first units of what ultimately will be the two largest fuel-electric generating stations in Canada, the Richard L. Hearn Generating Station in Toronto and the J. Clark Keith Generating Station in Windsor. This raised to eight the number of fuel-electric stations operated by the Commission in addition to its 64 hydro-electric generating stations.

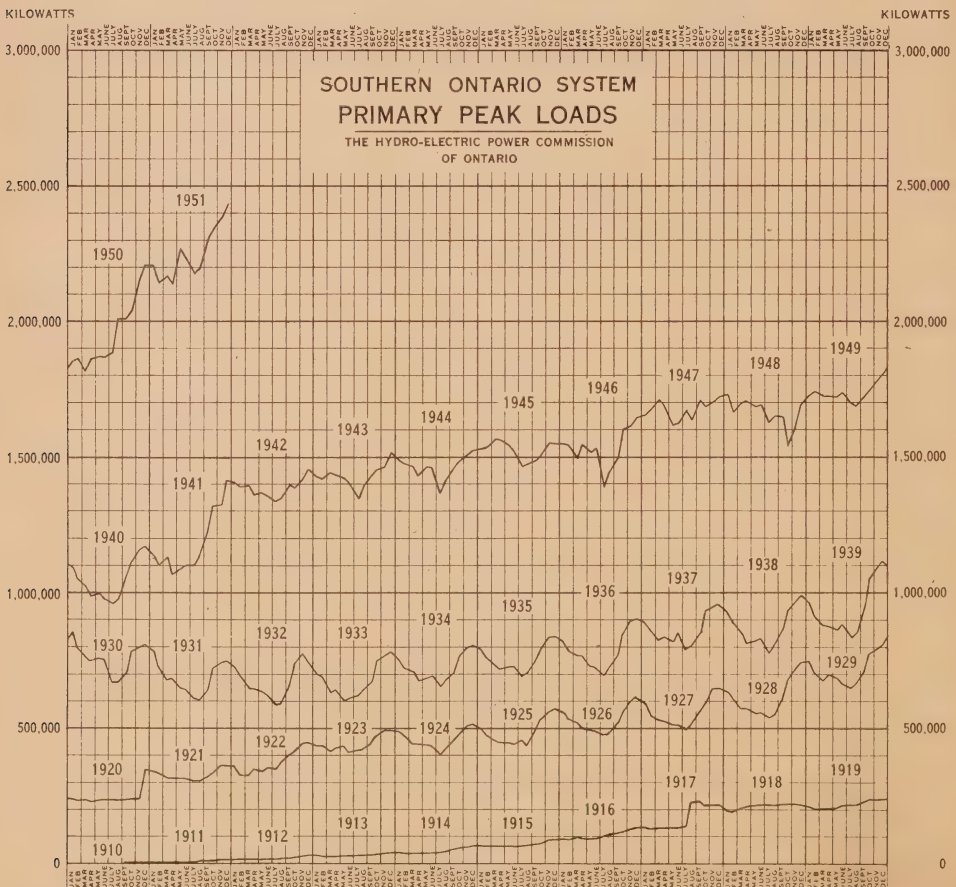
To keep pace with the rapidly increasing use of electricity in the Province, extensive additions were also made to the transmission and transformation facilities of the Commission. Sixty-cycle supply facilities were made available to a number of 25-cycle municipal electrical utilities and direct industrial customers to facilitate the standardization of frequency in the southern part of the Province.

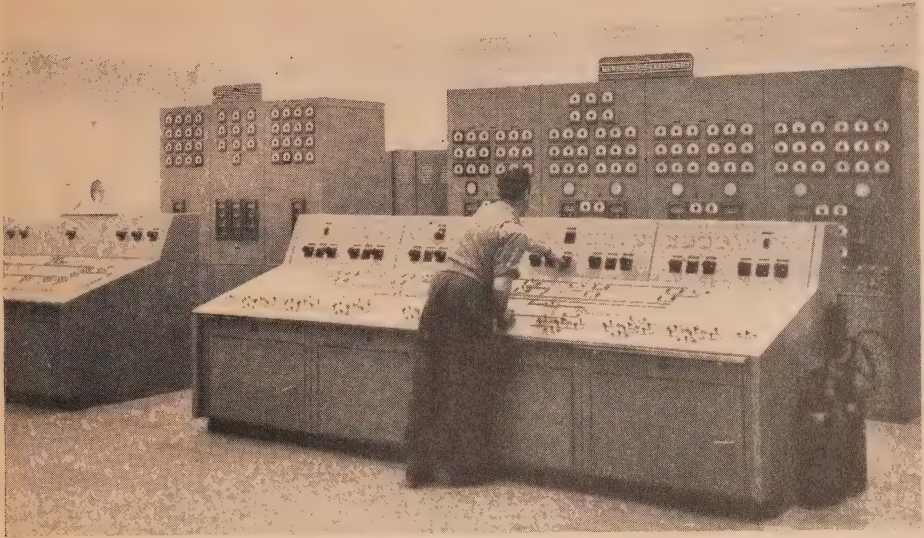
The increase in generating capacity following upon extensions to hydro-electric stations and the opening of new fuel-electric sources was partially offset by a reduction in the amount of power available from sources of purchased power. However, the combined dependable peak capacity of all sources was increased to 2,941,750 kilowatts in December 1951. This was 211,450 kilowatts greater than in December 1950, an increase of 7.7 per cent. The Commission's generating stations produced a total of 14,025,616,458 kilowatt-hours for commercial load purposes during the year. In addition, the Commission purchased under its regular, temporary, and short-term agreements 4,785,835,598 kilowatt-hours, making a total of 18,811,452,056 kilowatt-hours generated and purchased. The record net output of all sources for 1951 exceeded that of the calendar year 1950 by 18.5 per cent.

SOUTHERN ONTARIO SYSTEM

Operation

The year saw the placing in service of the eighth and final unit at Des Joachims and the remaining six of eight units at Chenaux. On October 26 the Richard L. Hearn Generating Station was officially opened and after its initial test run the first unit at this station produced up to 90,000 kilowatts,





CHENAUX GENERATING STATION—Control-room.

operating at 25 cycles. The J. Clark Keith Generating Station was officially opened on November 16. The first unit at this station, after its initial test run, was withdrawn for adjustments before being placed in commercial service. Dependable peak capacity of the Southern Ontario System was 2,389,250 kilowatts at the end of 1951 as compared with 2,181,000 kilowatts in December 1950, an increase of 208,250 kilowatts or 9.5 per cent.

Through the co-operation of the Department of Transport the diversion of an additional 2,500 cubic feet per second of water from the Welland Ship Canal, until 1950 permitted only during the non-navigation season, was made available the year round commencing March 13. This has made possible an increase in the energy output of the two units at the DeCew Falls 25-cycle station during the navigation season of more than 1,000,000 kilowatt-hours per day.

The amount of water impounded in the various storage basins throughout the Southern Ontario System was good at the beginning of the year, while the water situation of the Commission's Quebec suppliers was excellent. Favourable stream-flows prevailed during the early months and snow cover was about normal prior to the 1951 spring freshet, which commenced somewhat earlier than usual. At the conclusion of freshet most major reservoirs were full or nearly so. Only a slight draught on storage took place during the summer and early fall months as natural run-off continued above normal. During the latter part of October and early in November it became necessary to waste water on many rivers. On the Ottawa River particularly, flows of freshet proportions occurred as storage reservoirs were already at or near their desired maximum level and inflow continued heavy. Loss of head resulting from these high flows reduced the total available capacity of the Ottawa River stations by as much as 60,000 kilowatts.

As the year closed, stream-flows were excellent, and the water impounded in the various reservoirs throughout the System and in the watersheds supplying the stations of the Gatineau and Maclaren-Quebec Power Companies was well above normal for this period of the year.

Load Trends

As a result of the frequency standardization program a number of 25- and $66\frac{2}{3}$ -cycle customers received 60-cycle service during 1951, and on August 5, $66\frac{2}{3}$ -cycle service from the DeCew Falls Generating Station was discontinued. By the end of the year the 25-cycle load was slightly less than at the end of 1950. At the same time the 60-cycle load in what was formerly the 25-cycle area was 397,000 kilowatts in terms of coincident peak demand at the generators.

Primary demands, reflecting in general the growth of the Province, advanced seasonally in practically every week from late summer to set a new peak record in December of 2,587,959 kilowatts. This exceeded the December 1950 peak by 227,095 kilowatts or 9.6 per cent. Adverse weather conditions resulting in high load demands, coupled with a temporary loss of generating capacity immediately preceding the Christmas holidays, made it necessary for the Commission to appeal to all customers to save power, especially during peak load periods. On the basis of demands occurring prior to the appeal, it is quite probable that, had the appeal not been made, peak demand on the System would have approximated 2,630,000 kilowatts, an increase of 269,000 kilowatts or 11.4 per cent over the peak demand in December 1950. Energy demands reached an all-time high of 48,279,462 kilowatt-hours for any one day, exceeding like demands in 1950 by 4,499,442 kilowatt-hours or 10.3 per cent. Energy demands for the entire year of 1951 exceeded those of 1950 by 13.5 per cent.

The amount of energy produced for use by the System for primary and secondary load purposes was 15,286,391,769 kilowatt-hours for the year, an increase over that of 1950 of 18.7 per cent.

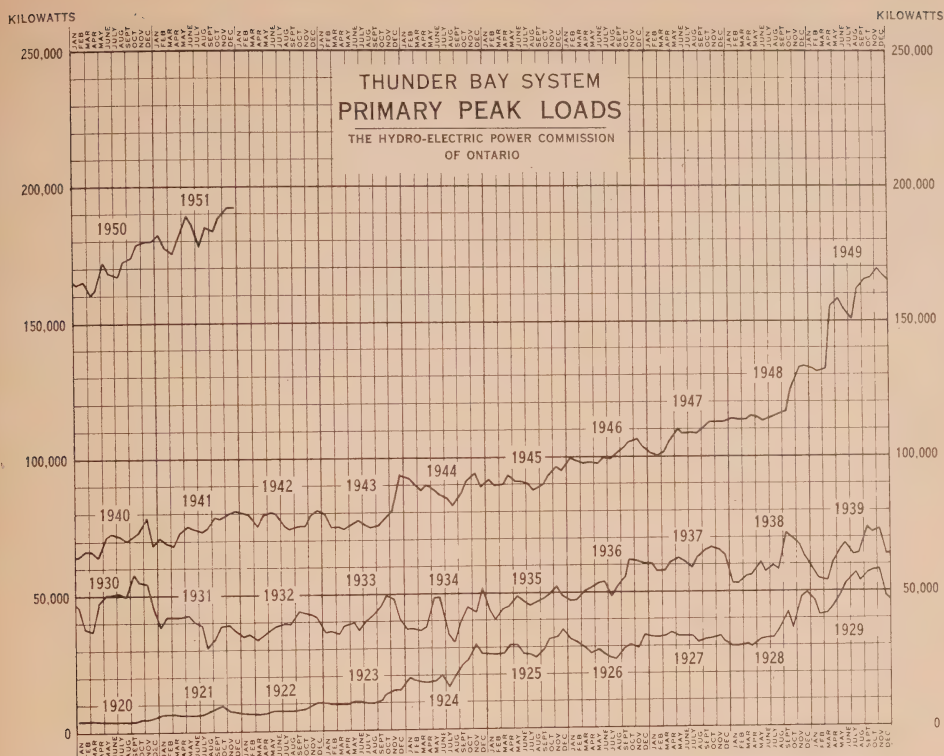
THUNDER BAY SYSTEM

Operation

The longer-established Nipigon River stations, together with the recently constructed Aguasabon and Pine Portage developments and the Kakabeka Generating Station acquired in 1949, assured customers in this area of an adequate supply of power for their needs. Growth is marked by an 18.4 per cent increase in total energy produced for use in the System for primary and secondary load purposes during the year. This reached a record amount of 1,578,273,704 kilowatt-hours.

Minor upward revisions in the ratings of available resources brought the dependable peak capacity up to 235,100 kilowatts for December 1951.

Above-normal natural flows and lake-levels prevailed during the winter months preceding the 1951 spring freshet. Precipitation was above normal, providing a good snow cover with a high water content. This led to relatively high flows and rapid replenishment of storage reservoirs. Natural flows, which were slightly below normal following the spring run-off, steadily



decreased during the summer and fall months. Water conditions were more than sufficient to meet load requirements for the remainder of the year.

Load Trends

Primary peak and energy demands were fully met, and advanced to new highs. The peak of 192,415 kilowatts exceeded the peak demand in 1950 by 12,705 kilowatts or 7.1 per cent, while energy demands for the entire year of 1951 exceeded those of 1950 by 9.3 per cent.

NORTHERN ONTARIO PROPERTIES

Operation

Resources in the Thunder Bay System and Patricia District of the Northern Ontario Properties were wholly integrated on April 15 when a newly constructed 115,000-volt line between Moose Lake and Dryden Transformer Stations was placed in service. This line assures an adequate supply of power for customers in the Dryden, Sioux Lookout, Pickle Lake, and Red Lake areas.

The supply of power to Killarney represents an engineering achievement. In the 18-mile stretch between Birch Island and Killarney the line makes 29 water crossings, three of which involve the use of submarine cable. One of the spans of line is just over a mile in length.

Initial sixty-cycle service was supplied to the Spruce Falls Power and Paper Company on December 11. Delivery was made by way of an existing

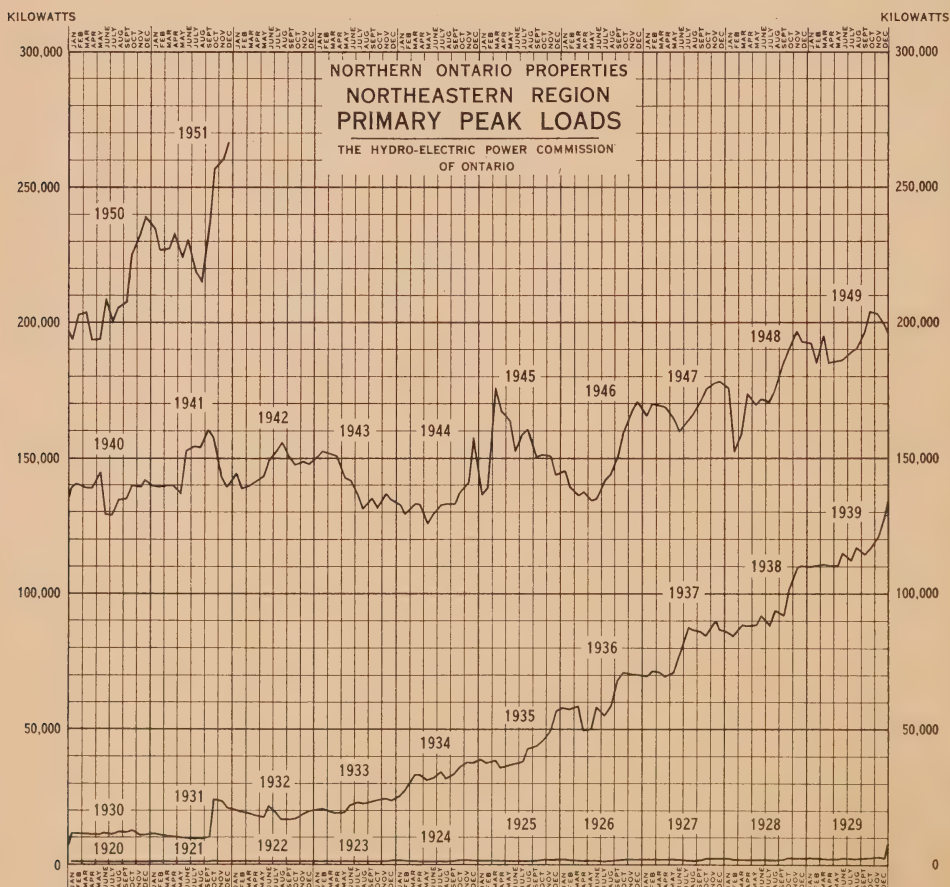
circuit, formerly operated at 25 cycles, between Kirkland Lake, Hunta, and Smooth Rock Falls and thence by way of a newly constructed 115,000-volt circuit to Kapuskasing.

A new 22,000-volt circuit was constructed from Kapuskasing to Hearst in order to supply this community with 60-cycle power.

Growth throughout the northern part of the Province is reflected in the amount of energy produced for use in the Northern Ontario Properties for primary and secondary load purposes, a record total of 1,946,786,583 kilowatt-hours during the year, representing an increase over 1950 of 16.6 per cent.

Minor increases in the dependable peak capacities of existing stations brought the dependable peak capacity of the Northern Ontario Properties to 317,400 kilowatts.

Excellent water conditions prevailed in the Patricia District throughout the year. At the beginning of 1951 water conditions in the Northeastern



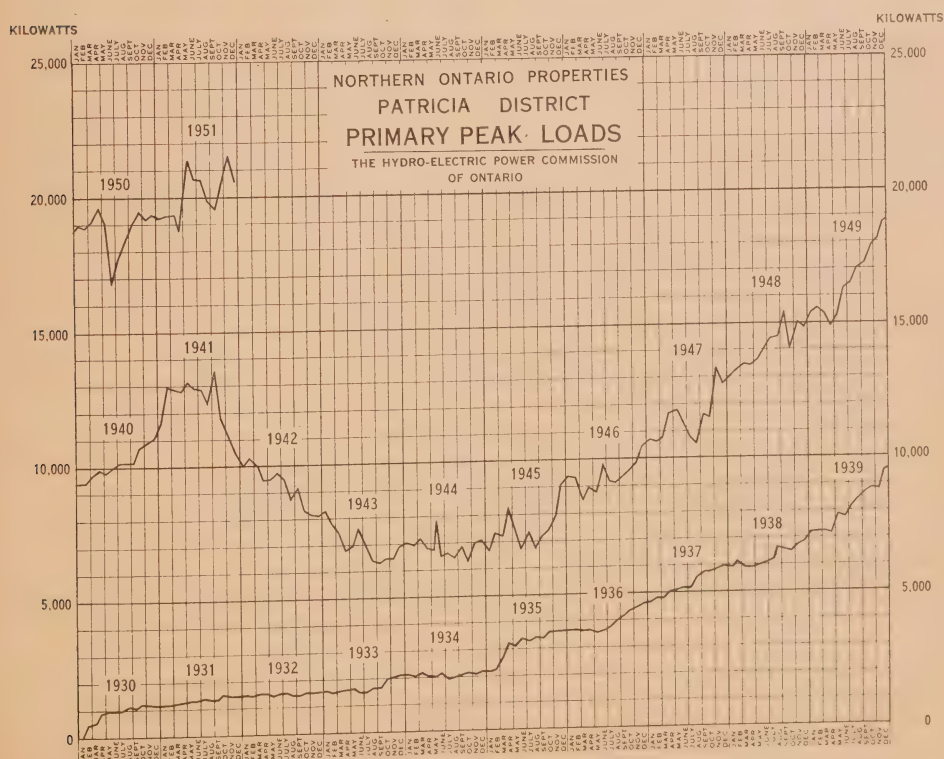
Region were excellent with sufficient water available to meet primary requirements until freshet. Spring break-up commenced in all sectors during the last week of March and the first week of April. Good snow cover with a high water content created high flows which fully replenished most reservoirs by the end of May.

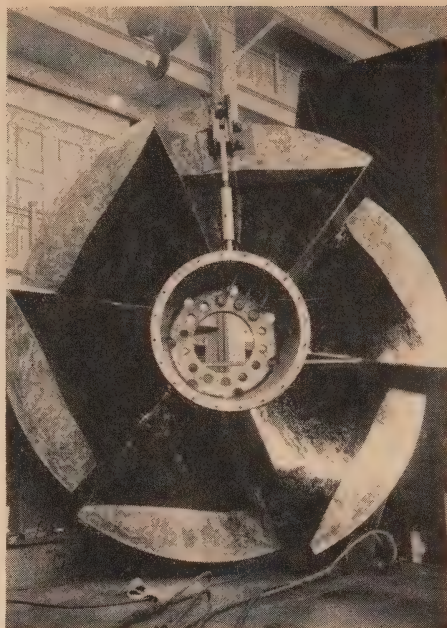
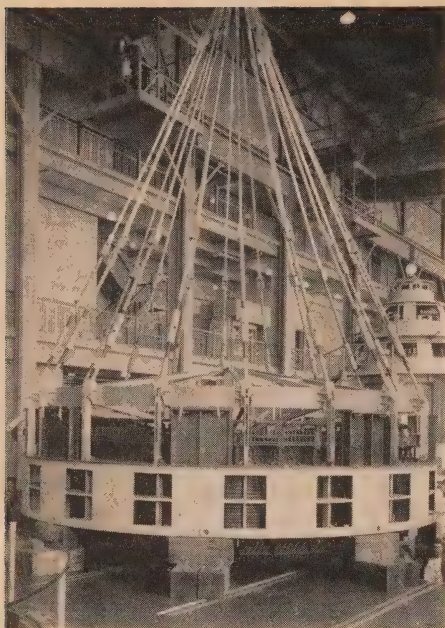
The summer, which is generally a period of low run-off, was marked by heavier than normal flows. This led to a light draught on storage reserves, and excellent storage conditions continued into the fall months. During the fall months exceptionally heavy rains at times caused river-flows to approach freshet proportions and necessitated wasting water at most stations during October and November.

At the year's end water storage was sufficient to maintain production at a rate in excess of primary requirements until the spring freshet of 1952.

Load Trends

Primary peak and energy demands in the Northern Ontario Properties reached new highs. The peak of 286,653 kilowatts exceeded the peak demand in 1950 by 28,242 kilowatts or 10.9 per cent. Primary energy demands for the year exceeded those of 1950 by 14.8 per cent.





ELECTRICAL AND MECHANICAL MAINTENANCE

Left: Special lifting device for 84-ton stator of generating unit
Right: Stainless steel welding on propeller-type turbine runner

MAINTENANCE

Mechanical

In addition to routine maintenance and inspection of mechanical equipment, complete overhaul was given to four turbines in the Niagara district, two at Sir Adam Beck-Niagara Generating Station No. 1, one at DeCew Falls, and one at Toronto Power. One turbine was overhauled at Chats Falls, and when Pine Portage Generating Station made available to that district the first surplus of power in many years, one turbine at each of Cameron Falls and Alexander was overhauled. This is the commencement of a program of rehabilitation of this long-overworked equipment.

New methods of welding are being continuously investigated with a view both to improving the quality of deposited metal and reducing cost. Investigations, carried out mainly in the repair of turbine runners, indicate that two processes, the submerged arc and the argon arc, have shown the greatest promise in supplementing the conventional arc process.

Repairs to the shaft of a large frequency-changer, bent while in operation, were carried out by the manufacturer in collaboration with the Commission's staff while the shaft was in place. A large turbine shaft similarly affected was removed from its runner and repaired by the Commission's staff at the site. Loss of time was thus materially reduced.

Electrical

Routine inspection of the majority of generators and synchronous condensers was supplemented by the major overhaul of five large generators, one large synchronous condenser, and four small generators. Major repairs

were made to two large generators. Lightning damage to generator coils, prevalent in past years, especially in the northeastern part of the Province, was negligible.

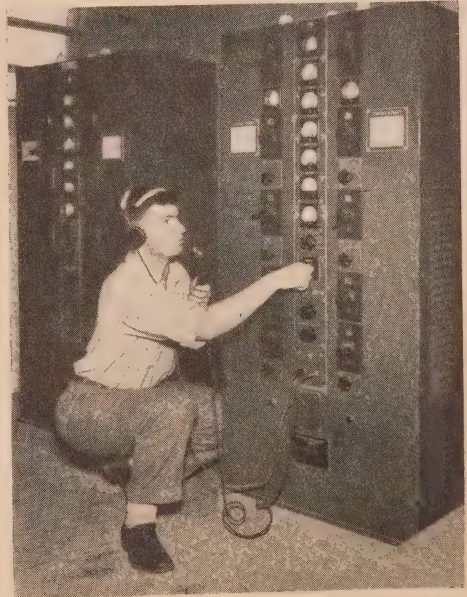
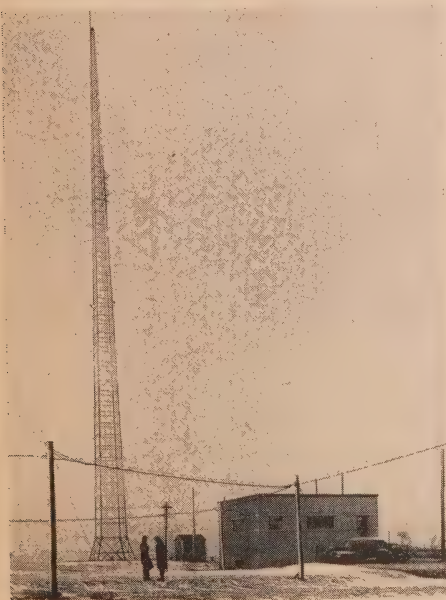
Extensive work was done on transformers, 16 large and 30 small transformers being rebuilt or reconnected for 60-cycle operation. A total of 102 transformers, 22 large and 80 small, were given regular overhaul. Tests of bushings on transformers and switchgear units, and a relatively few equipment failures were followed by the rebuilding of 54 high-voltage and 175 low-voltage bushings.

The installation of the oil-treating unit at the Bridgman Transformer Station electrical maintenance shop, reported last year, was completed and 23,000 gallons of deteriorated oil were reclaimed.

Transmission Lines

Maintenance work on lines involved the replacement of over 5,600 distribution and 2,700 transmission poles throughout the Province and the painting of nearly 800 towers on some of the older 110-kv lines in the Western, West Central, Niagara, and Northeastern Regions. In the Northeastern Region the 110-kv, 25-cycle circuits between Iroquois Falls and Kirkland Lake were completely inspected, and necessary replacements were made before releasing one circuit for 60-cycle operation.

During the winter months 350 poles were replaced on the telephone line between Hunta Switching Station and Timmins Transformer Station in areas inaccessible except when snow-roads are usable. This is part of a three-year program to replace defective poles and to adjust tension on the conductors along the telephone line between Abitibi Canyon and Copper Cliff.



ELLESMERE RADIO STATION

Provides communication between Head Office and the Northwestern Region, and construction projects in northern Ontario

Left: The antenna mast
Right: Equipment in use

FORESTRY

Line Clearing

The following table shows the work that has been performed on transmission, rural, and municipal line-clearing operations during 1951, exclusive of the work done by linemen:

Summary of Line-Clearing Operations

	Brush cutting (pole spans)	Trees treated	Miles of line cleared	Tree density per mile
New line construction.....	322	45,859	922	50
Municipal systems (44).....	54	10,780	134	80
Transmission and telephone lines.....	2,446	73,992	2,448	30
Rural operating areas.....	926	124,818	2,302	54
Rural operating areas—Contractors.....	333	15,422	283	54
Total.....	4,081	270,871	6,089	44

Forest Management

Approximately 49 acres of land in the Niagara Region were planted with 48,500 trees, and 10 acres in the Northeastern Region were planted with 12,500 trees. In preparation for the 1952 reforestation program an order for approximately 100,000 seedling trees was placed with the Department of Lands



BRUSH CONTROL

This brush chipper reduces brush to chips suitable for fertilizer and other uses.

and Forests for planting in the Niagara, East Central, Eastern, and North-eastern Regions.

Land-use surveys of Commission-owned property were commenced in the Eastern Region to determine the extent of wooded areas as well as the amount of reforestation required. Work was still in progress at the year's end.

Forestry personnel supervised timber cutting operations on the Chats Falls lands, involving approximately 1,000,000 board feet of timber.

Power spray operations were carried on in all regions to control insects, fungus diseases, and weeds. Approximately 4,000 acres of transmission rights-of-way were also sprayed with chemicals to control underbrush, and stumps were chemically treated to control regrowth following cutting operations. Excellent results were attained in all cases.

Training of forestry personnel was carried on at the Commission Training Centre. Courses lasting from two to eight weeks were attended by ninety employees.

SECTION II

FINANCIAL STATEMENTS

Relating to

Properties Operated by The Hydro-Electric Power Commission of
Ontario on Behalf of the Co-operating Municipalities and
Rural Power Districts of the Southern Ontario
System and the Thunder Bay System,

and to

Northern Ontario Properties Held and Operated by the Commission
in Trust for the Province of Ontario

Description	Southern Ontario and Thunder Bay Systems	Northern Ontario Properties
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Schedules supporting the Balance Sheet:		
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Advances from the Province of Ontario	34	34
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Rural Power District—Rates Suspense Account	300	
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The financial statements of The Hydro-Electric Power Commission of Ontario that appear in this section and in Appendix II may be divided into two groups as indicated in the table above. The first group, relating to

activities on behalf of the co-operating municipalities which are partners in the main Hydro undertaking, deals with the Southern Ontario System, the Thunder Bay System, and the Rural Power District associated with these two systems. The second group relates to the administration of the Northern Ontario Properties, which are held and operated in trust for the Province of Ontario.

Co-operative Systems

In the Foreword to this Report a brief reference is made to the basic principle governing the operations of the Hydro undertaking in supplying electric service at cost, and to the wholesale and retail aspects of the operation. A description is also given of the systems within which the partner municipalities are co-ordinated for securing common action with respect to power supplies.

Financial Accounts of the Commission

In each of Section II and Appendix II the collective results of the activities of the two co-operative systems are given first. These include a balance sheet, a statement of operations, and supporting data regarding fixed assets and reserves. The corresponding statements for Northern Ontario Properties follow in the same order. The balance sheets and statements of operations of the co-operative systems and of Northern Ontario Properties are given in this section. Also in Section II are tables showing the funded debt of the Commission and the advances from the Province of Ontario.

Municipal Utility Accounts

In addition to accounts of the Commission's collective activities, Appendix II contains tables relating to the individual municipality's part in the wholesale operations of the Commission.

The statements which present the cost of power supplied by the Commission to municipalities in the Southern Ontario and Thunder Bay Systems appear on pages 302 and 318 respectively. A detailed description of the form of these cost-of-power statements is given later in this section. The municipalities are billed each month at estimated interim rates. At the end of the year, when the Commission's books are closed and the actual cost payable by each municipality for power taken has been determined, the necessary credit or debit adjustments are made.

Included in the municipalities' remittance to the Commission for the wholesale cost of power is a sinking fund provision on a forty-year basis for the purpose of retiring capital liabilities. A table showing the sinking fund equity acquired by each municipality is given in Appendix II.

The ultimate source of all revenue to meet costs—whether for the larger operations of the Commission or for the smaller local operations of the municipalities—is, of course, the customer who makes use of the power supplied. Out of the total revenue collected by each municipal utility from its customers for service supplied, only an amount sufficient to pay the whole-sale cost of power is remitted to the Commission. The balance of municipal

electrical utility revenue is retained to pay costs incurred in the distribution of electric energy to its customers.

The balance sheets, operating reports, and statistical data of individual municipal electrical utilities appear in Section VIII under the heading "Municipal Electrical Accounts." They relate to the operation of local distribution systems. An explanatory introduction precedes these statements in Section VIII.

Auditing of Accounts

The accounts of the Commission are verified by auditors appointed by the Provincial Government. The accounts of each municipal electrical utility are kept in accordance with the uniform system of accounting as prescribed by The Hydro-Electric Power Commission of Ontario, and pursuant to the requirements of The Public Utilities Act are audited by the auditors of the municipal corporation.

Summary of Financial Position—All Systems

The total assets of the Commission at December 31, 1951, amounted to \$1,036,029,755. This is the sum of the assets of the Commission in the Southern Ontario and Thunder Bay Systems and the Northern Ontario Properties after deducting accumulated depreciation of \$116,945,857 and a contra account of \$956,647 existing between the two balance sheets as set forth on pages 24 and 28. Rural assets under administration at the end of the year amounted to \$127,227,145, of which \$63,015,165 has been provided by the Province of Ontario in the form of grants-in-aid. These grants-in-aid for construction in the rural power districts are shown as a deduction from rural assets on each balance sheet.

Capital expenditures during 1951 amounted to \$164,617,930, 51 per cent being for new generation, which reflects the continuation of the Commission's expansion program.

During 1951 an amount of \$39,456,723 was spent on the frequency standardization program. This expenditure includes \$6,834,590 which was invested in materials and equipment for use in future standardization; this amount, when added to that already similarly invested, represents an expenditure at December 31, 1951 of \$26,746,651, all of which is applicable to future frequency standardization projects.

In order to meet these expenditures and to provide for \$10,525,951 of debt retirement, a total of \$130 million of bonds were issued during the year. The proceeds from the sales of these bonds, together with \$47,867,477 raised internally from reserves and \$10,066,604 received from the Province of Ontario in the form of grants in aid for the rural hydro program, provided the necessary financing for the Commission's undertakings. In this connection a further issue on January 2, 1952 of bonds in the principal sum of \$50 million resulted in the retirement of the bank overdraft as recorded in the balance sheet of the Southern Ontario and Thunder Bay Systems.

At December 31, 1951 the Commission's long-term debt was \$690,334,092, while accumulated sinking funds amounted to \$165,573,021.

Southern Ontario and Thunder Bay Systems—Operation

In 1951 the Commission's fiscal year coincided with the calendar year commencing January 1, while the 1950 fiscal year included fourteen months from November 1, 1949 to December 31, 1950, and this should be kept in mind when comparisons between the two years are made. The comparisons which follow have been based upon pro-rata figures for a twelve-month period in 1950.

Owing to the continuing high load factor experienced by the Commission throughout the operation of its power facilities, it was possible to refund to the municipal cost customers a net amount of \$2,417,948 on behalf of 1951 operations in the Southern Ontario System. In the Thunder Bay System the net refunds for the same period totalled \$102,950.

Within these two systems 1951 rural revenues were \$19,063,279 and operating costs were \$19,056,584, which produced a surplus of \$6,695 compared with a surplus of \$79,767 for a corresponding period in 1950.

Northern Ontario Properties—Operation

The rate increases introduced in 1950 were in effect for the full year of 1951. Mounting costs, however, largely offset higher revenues and the 1951 loss was \$536,223. This compares with a loss of \$812,748 in 1950. Revenue increased to \$9,552,710 while expenses increased to \$10,088,933. This represents an increase on a twelve-months' basis of 19 per cent and 14 per cent respectively. A further rate increase of approximately 15 per cent was introduced in July 1951, and it is hoped that this will have a favourable effect upon the operating results.

The cost of conducting rural operations exceeded revenues by \$319,237 during the year.

It will be noted that the Northern Ontario Properties balance sheet shows an accumulated deficit account of \$2,233,152 on behalf of all operations.

Cost of Power

In this Annual Report the statements of the cost of power appear in a different form from that of previous years. This revision conforms with changes made in order to avoid excessive complexity in allocating wholesale power costs to the municipal electrical utilities.

In the early days of the Commission's operation, only thirteen municipalities were involved and all secured power from one source. All shared equitably the cost of power purchased from the Ontario Power Company, and where two or more municipalities shared the benefits of distribution facilities they shared the cost of distribution according to their respective loads. From one generating source power flowed in one direction and in quantities easily measured.

Following early developments, additional sources of power in other parts of the Province were added to existing systems, power was purchased from Quebec suppliers, and an extensive grid of high-voltage transmission facilities was established. As these conditions developed, it became evident

that changes would be required in the basic costing procedure, and minor modifications were made over a period of years. In 1943 the cost of generation, purchased power, various frequency changers, and interconnecting facilities in the Niagara, Eastern Ontario, and Georgian Bay Systems—now the Southern Ontario System—were pooled and charged equitably to all loads in the system. Other costs—transmission, transformation, and distribution—continued to be allocated as before. However, the number of accounts used in a costing procedure which had remained basically unchanged from the original system had reached such proportions in 1949 that the Commission had a lengthy study undertaken with a view to simplification. The ensuing report made recommendations for simplifying the procedure while continuing the determination of costs in an equitable manner. A test of these recommendations, made by applying the recommended principles to costs in each of the years 1947 to 1949 inclusive, proved their value, and as a result the modified costing procedure was put into effect as of January 1, 1951.

It will be recalled that in former years the cost of power to each municipality was broken down into the following contributing elements:

- Cost of power purchased
- Operating, maintenance, and administrative expense
- Interest
- Depreciation
- Provision for contingencies, obsolescence, and frequency standardization
- Provision for sinking fund
- Revenue received in excess of cost of power sold to private companies.

Under the procedure adopted in 1951 the cost of power to each municipality is presented by function as follows:

- Power supply, including step-up transformation
- Bulk transmission
- High-voltage transmission
- High-voltage step-down transformation
- Low-voltage distribution
- Distributing stations
- Division costs
- Direct charges

Power supply includes generally what were previously known as amalgamated costs, plus the step-up transformation. These amalgamated costs were formerly allocated at a uniform rate per kilowatt of demand to all loads in the Southern Ontario System. Under the present system some weight is given to the varying quantities of kilowatt-hours of energy used by each customer.

Bulk transmission covers the cost of conveying large quantities of power by means of 230-kv lines and large transformer stations from eastern Ontario, for example, to combine with power from the Niagara River stations for distribution to divisions otherwise unable to meet their total power requirement.

Divisional costs, including high-voltage transmission and high-voltage step-down transformation, are allocated on a divisional basis governed by distance and demand load.

In the statements that appear on pages 302-319 in this Report the charges to municipal electrical utilities appear under these main headings, "Share of power purchased, operating costs, fixed charges," and "Special provisions". Since charges for power supply have been based for the first time on a consideration of both peak and energy loads, the energy consumption has been added to the table.

THE HYDRO-ELECTRIC POWER

SOUTHERN ONTARIO AND

BALANCE SHEET AS AT

ASSETS		
FIXED ASSETS AT COST:		
Southern Ontario System.....	\$700,326,457.38	
Thunder Bay System.....	71,739,132.35	
Administrative and service buildings and equipment.....	16,744,995.20	
Rural Power Districts.....	\$113,748,368.98	
Less grants in aid of construction from		
Province of Ontario.....	56,343,648.38	
	<hr/>	57,404,720.60
		\$846,215,305.53
Less reserve for depreciation.....		106,251,195.67
		<hr/>
		\$739,964,109.86
CURRENT ASSETS:		
Working funds.....	\$ 188,716.94	
Sundry accounts receivable.....	3,191,264.35	
Power accounts receivable.....	11,084,375.15	
Rural Power Districts grants receivable.....	2,320,875.44	
Interest accrued.....	765,925.67	
Customers' deposits—securities.....	468,950.00	
Prepayments and sundry deposits.....	154,086.52	
Northern Ontario Properties—current account.....	956,646.59	
	<hr/>	19,130,840.66
INVENTORIES:		
Construction and maintenance materials and supplies.....	\$ 25,937,695.77	
Construction and maintenance tools and equipment.....	9,070,535.31	
	<hr/>	35,008,231.08
DEFERRED CHARGES AND OTHER ASSETS:		
Frequency standardization—equipment and supplies.....	\$ 26,746,650.88	
Debenture discount and expense less amounts written off...	9,062,377.62	
Agreements, mortgages and sundry investments.....	110,366.00	
Work in progress—deferred work orders.....	2,292,650.87	
	<hr/>	38,212,045.37
RESERVE FUND INVESTMENTS:		
Investments in government and government guaranteed		
bonds at amortized cost (approximate market value		
\$89,474,641.00)		
Held for: Pension fund.....	\$ 28,173,246.70	
Employers' liability insurance fund.....	4,249,185.90	
Contingencies and obsolescence and stabilization		
of rates reserves.....	60,079,575.75	
	<hr/>	92,502,008.35
		<hr/>
		\$924,817,235.32

COMMISSION OF ONTARIO

THUNDER BAY SYSTEMS

DECEMBER 31, 1951

LIABILITIES AND RESERVES

LONG TERM LIABILITIES (at par of exchange):

Funded debt.....	\$624,278,000.00	
Less debentures issued to finance Northern Ontario Properties, a separate trust operated by the Commission for the Province of Ontario.....	74,820,000.00	
	<u>\$549,458,000.00</u>	
Advances from the Province of Ontario.....	\$ 66,056,091.52	
Less advances for Northern Ontario Properties.....	4,514,173.63	
	<u>61,541,917.89</u>	
		<u>\$610,999,917.89</u>

CURRENT LIABILITIES:

Bank overdraft (partly secured).....	\$ 26,666,522.55	
Accounts and payrolls payable.....	13,756,434.71	
Customers' deposits.....	727,260.90	
Debenture interest accrued.....	3,703,911.91	
Miscellaneous accruals.....	1,177,370.65	
		<u>46,031,500.72</u>

SPECIAL RESERVES:

Pension fund.....	\$ 28,537,273.22	
Employers' liability insurance fund.....	4,306,171.68	
Frequency standardization.....	15,846,065.58	
Exchange premium received on funded debt.....	5,557,538.66	
		<u>54,247,049.14</u>

GENERAL RESERVES:

Contingencies and obsolescence.....	\$ 44,215,604.07	
Stabilization of rates.....	26,299,741.90	
Rural Power Districts—rates suspense.....	2,275,721.30	
Miscellaneous.....	526,764.71	
		<u>73,317,831.98</u>

SINKING FUND RESERVE:

Represented by funded debt and provincial advances retired through sinking funds.....	140,220,935.59	
	<u>\$924,817,235.32</u>	

Commitments under uncompleted contracts for the construction of fixed assets, approximately \$30,000,000.

Auditors' Report

We have examined the balance sheet of the Southern Ontario and Thunder Bay Systems of The Hydro-Electric Power Commission of Ontario, as at December 31, 1951, and the statement of operations for the year ended on that date and have obtained all the information and explanations we have required. Our examination included a general review of the accounting procedures and such tests of accounting records and other supporting evidence as we considered necessary in the circumstances.

In our opinion the accompanying balance sheet and statement of operations are properly drawn up so as to exhibit a true and correct view of the state of the affairs of the Southern Ontario and Thunder Bay Systems of the Commission as at December 31, 1951 (subject to the trusts which prevail in respect thereto) and the results of their operations for the year ended on that date, according to the best of our information and the explanations given to us and as shown by the books of the Commission.

CLARKSON, GORDON & CO.
Chartered Accountants.

Toronto, Canada,
June 30, 1952.

THE HYDRO-ELECTRIC POWER

SOUTHERN ONTARIO AND

STATEMENT OF

For the Year Ended

	Southern Ontario System
	\$
COST OF POWER:	
Cost of power purchased.....	13,805,065.80
Operating, maintenance, and administrative expenses.....	17,743,394.20
Interest (including interest on funded debt and reserves, less interest earned on investments).....	19,340,964.36
Provision for depreciation.....	4,970,975.45
Provision for contingencies and obsolescence.....	5,352,989.98
Provision for frequency standardization.....	7,333,281.46
Provision for stabilization of rates.....	1,480,283.70
Provision for sinking fund.....	5,485,557.06
	75,512,512.01
Cost of power supplied to Rural Power Districts by systems.....	8,200,060.23
Total.....	67,312,451.78
AMOUNTS BILLED TO MUNICIPALITIES AND OTHER CUSTOMERS:	
Municipalities (at interim rates).....	50,377,699.21
Rural Power Districts.....	19,244,824.08
Companies.....	
Mining area.....	107,876.95
Local distribution systems.....	
Total.....	69,730,400.24
Excess or <i>deficiency</i> of amounts billed over cost of power (for disposition see table below).....	2,417,948.46

Disposition of the above excess or *deficiency* of amounts billed over the cost of power:

SOUTHERN ONTARIO SYSTEM—

Excess credited to municipalities on annual adjustment..... \$2,417,948.46

THUNDER BAY SYSTEM—

Deficiency as above..... \$ 320,900.35

Less amount charged to reserve for contingencies and obsolescence..... 423,850.54

Balance—credited to municipalities on annual adjustment..... \$ 102,950.19

COMMISSION OF ONTARIO

THUNDER BAY SYSTEMS

OPERATIONS

December 31, 1951

Thunder Bay System	Distribution in Rural Power Districts		Total
	Southern Ontario	Thunder Bay	
\$	\$	\$	\$
2,181.77			13,807,247.57
1,318,413.10	5,369,930.27	82,264.22	24,514,001.79
2,543,336.06	1,826,585.53	36,926.40	23,747,812.35
571,942.51	990,458.59	20,144.47	6,553,521.02
317,309.83	1,890,458.59	20,144.47	7,580,902.87
			7,333,281.46
37,402.64			1,517,686.34
742,578.19	524,666.90	10,606.73	6,763,408.88
5,533,164.10	10,602,099.88	170,086.29	91,817,862.28
84,337.53	8,200,060.23	84,337.53	.....
5,448,826.57	18,802,160.11	254,423.82	91,817,862.28
1,697,700.43	.....	.....	52,075,399.64
.....	18,867,252.70	196,026.39	19,063,279.09
3,058,270.16	.....	.....	22,303,094.24
270,669.31	.....	.....	270,669.31
101,286.32	.....	.....	209,163.27
5,127,926.22	18,867,252.70	196,026.39	93,921,605.55
320,900.35	65,092.59	58,397.43	2,103,743.27

RURAL POWER DISTRICT—

Excess in Southern Ontario System credited to Rural Power District rates
suspense account.....\$ 65,092.59

Deficiency in Thunder Bay System charged to Rural Power District rates
suspense account.....\$ 58,397.43

NORTHERN ONTARIO

Held and operated by The Hydro-Electric Power Commission

BALANCE SHEET AS AT

ASSETS AND DEFICIT

FIXED ASSETS AT COST:

Northern Ontario Properties.....	\$103,899,934.76
Administrative and service buildings and equipment.....	423,097.48
Rural Power District.....	\$13,478,776.21
Less grants in aid of construction from Province of Ontario.....	6,671,517.16
	<u>6,807,259.05</u>

\$111,130,291.29

Less reserve for depreciation..... 10,694,661.16

\$100,435,630.13

CURRENT ASSETS:

Working funds.....	\$ 18,780.00
Sundry accounts receivable.....	114,024.01
Power accounts receivable.....	1,741,840.52
Interest accrued.....	16,417.04
Customers' deposits—securities.....	1,634,475.00
Prepayments.....	4,946.35

3,530,482.92

INVENTORIES:

Maintenance materials and supplies.....	\$ 1,482,140.48
Maintenance tools and equipment.....	494,295.94

1,976,436.42

DEFERRED CHARGES AND OTHER ASSETS:

Debenture discount and expense less amounts written off...\$	1,022,200.54
Account receivable in annual instalments 1952-1989.....	1,936,647.80
Work in progress—deferred work orders.....	308,113.12

3,266,961.46

RESERVE FUND INVESTMENTS:

Government and government guaranteed bonds at amortized
cost (approximate market value \$741,990.00)

726,504.14

held for sinking fund reserve.....

2,233,151.95

DEFICIT ACCOUNT.....

\$112,169,167.02

PROPERTIES

of Ontario in trust for the Province of Ontario

DECEMBER 31, 1951

LIABILITIES AND RESERVES

LONG TERM LIABILITIES (at par of exchange)*:

Funded debt.....	\$ 74,820,000.00	
Advances from the Province of Ontario.....	4,514,173.63	
		\$ 79,334,173.63

CURRENT LIABILITIES:

The Hydro-Electric Power Commission of Ontario—current account with Southern Ontario and Thunder Bay Systems.....	\$ 956,646.59	
Customers' deposits.....	1,934,466.89	
Debenture interest accrued.....	440,988.37	
Miscellaneous accruals.....	125,894.32	
		3,457,996.17

SPECIAL RESERVE:

Exchange premium received on funded debt.....	183,205.16
-----------------------------------------------	------------

GENERAL RESERVE:

Contingencies and obsolescence.....	3,841,707.10
-------------------------------------	--------------

SINKING FUND RESERVE:

Represented by—

Funded debt and provincial advances retired through sinking fund.....	\$ 24,624,758.37	
Sinking fund investments and cash.....	727,326.59	
		25,352,084.96
		<u>\$112,169,167.02</u>

* The long term liabilities represent the portion of the funded debt and advances from the Province of Ontario owing by The Hydro-Electric Power Commission of Ontario issued to finance the Northern Ontario Properties.

Auditors' Report

We have examined the balance sheet of the Northern Ontario Properties, held and operated by The Hydro-Electric Power Commission of Ontario in trust for the Province of Ontario, as at December 31, 1951, and the statements of operations and deficit for the year ended on that date and have obtained all the information and explanations we have required. Our examination included a general review of the accounting procedures and such tests of accounting records and other supporting evidence as we considered necessary in the circumstances.

In our opinion the accompanying balance sheet and statement of operations and deficit are properly drawn up so as to exhibit a true and correct view of the state of the affairs of the Northern Ontario Properties as at December 31, 1951, and the results of the operations for the year ended on that date, according to the best of our information and the explanations given to us and as shown by the books of the Commission.

CLARKSON, GORDON & CO.
Chartered Accountants.

Toronto, Canada,
June 30, 1952.

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario
in trust for the Province of Ontario

STATEMENT OF OPERATIONS

For the Year Ended December 31, 1951

	Northern Ontario Properties	Rural Power District	Total
	\$	\$	\$
REVENUE:			
Power sold to companies, municipalities, and other customers	9,552,710.11	1,100,159.42	10,652,869.53
COST OF OPERATION:			
Power purchased	*279,506.44	20,128.62	*299,635.06
Operating, maintenance, and administrative expenses	4,330,700.37	481,193.92	4,811,894.29
Interest (including interest on funded debt and reserves less interest earned on investments) ..	3,421,174.05	182,079.63	3,603,253.68
Provision for depreciation	1,013,037.67	101,997.36	1,115,035.03
Provision for sinking fund	1,011,771.44	53,857.13	1,065,628.57
Provision for contingencies and obsolescence	510,885.04	101,997.36	612,882.40
Power supplied to Rural Power District	478,142.13	478,142.13	.....
	10,088,932.88	1,419,396.15	11,508,329.03
NET LOSS on operations for the year	536,222.77	319,236.73	855,459.50

*After deducting \$409,911.05 for power sold to the Southern Ontario System.

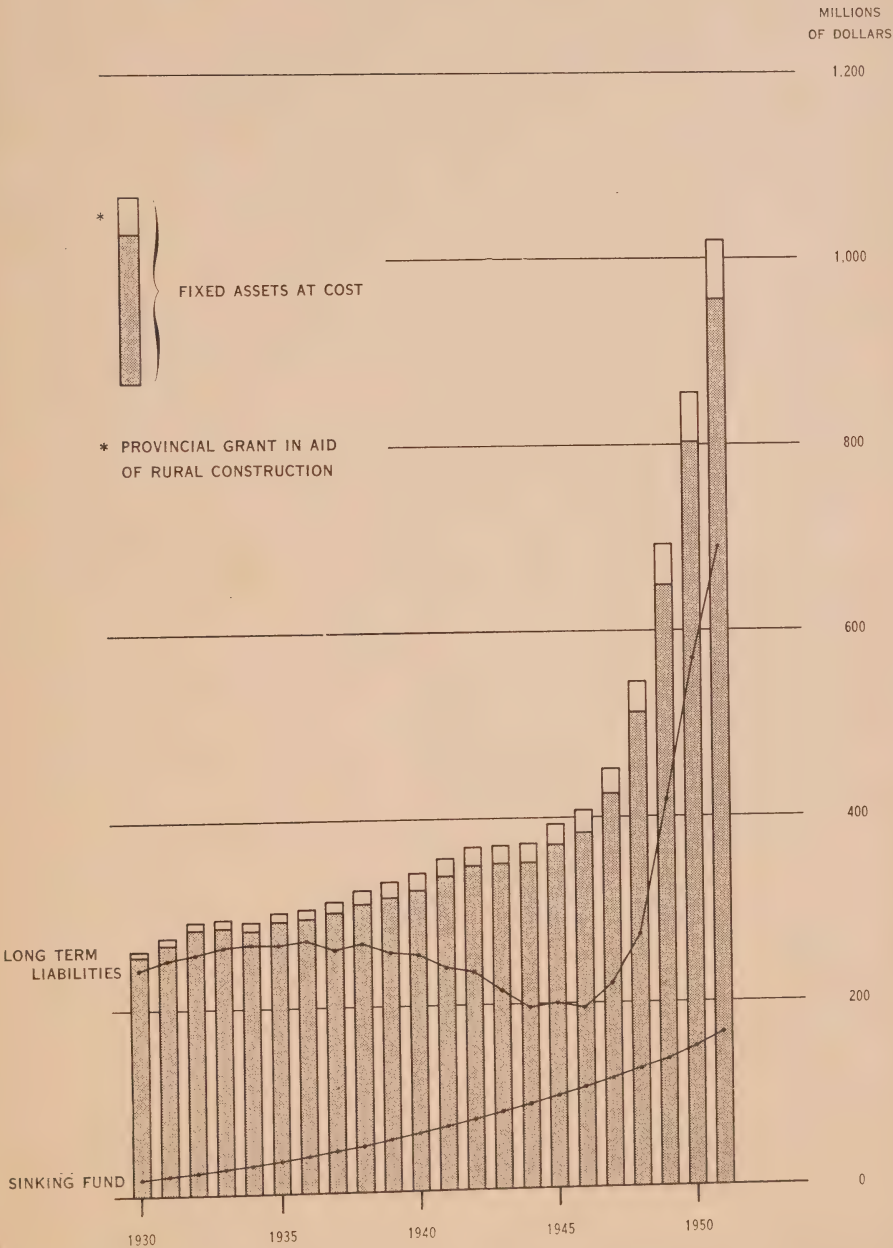
Statement of Deficit Account

For the Year Ended December 31, 1951

Balance at debit January 1, 1951	\$1,377,692.45
Net loss on operations for the year ended December 31, 1951	855,459.50
Balance at debit December 31, 1951	\$2,233,151.95

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

FIXED ASSETS, LONG TERM LIABILITIES,
AND SINKING FUND



THE HYDRO-ELECTRIC POWER

FUNDED DEBT AS AT

Guaranteed as to principal and interest by the

Date of maturity	Callable at par on or after	Date of issue	Interest rate
			per cent
May 1, 1952.....		May 1, 1942	3
Jan. 1, 1953.....	Jan. 1, 1951 (a)	Jan. 1, 1943	3
Nov. 1, 1953.....		Nov. 1, 1948	2½
July 15, 1954.....		July 15, 1949	2½
Nov. 1, 1954.....		May 1, 1950	2½
April 1, 1956.....		April 1, 1947	2
Aug. 1, 1957.....		Aug. 1, 1917	4
June 1, 1958.....		June 1, 1918	4
Dec. 1, 1958.....		Dec. 1, 1918	4
Jan. 1, 1960.....	Jan. 1, 1955	Jan. 1, 1945	3
Mar. 1, 1963.....	Mar. 1, 1961	Mar. 1, 1948	3
July 2, 1964.....	July 2, 1960	July 2, 1948	3
Dec. 15, 1965.....	Dec. 15, 1963	Dec. 15, 1948	3
May 1, 1966.....	May 1, 1964	May 1, 1951	3½
April 1, 1967.....	April 1, 1964	April 1, 1947	2¾
April 1, 1967.....	April 1, 1965	April 1, 1949	3
Jan. 15, 1968.....	Jan. 15, 1966	July 15, 1949	3
Oct. 1, 1968.....	Oct. 1, 1965	Oct. 1, 1947	2¾
Nov. 1, 1969.....	Nov. 1, 1967	Nov. 1, 1949	3
Jan. 1, 1970.....		Jan. 1, 1930	4¾
April 1, 1970.....	April 1, 1968	April 1, 1950	3
May 15, 1971.....	May 15, 1956(a)	May 15, 1951	3¼
June 1, 1971.....	June 1, 1961	June 1, 1946	2¾
Sept. 1, 1972.....	Sept. 1, 1956(a)	Sept. 1, 1951	3¼
June 15, 1973.....	June 15, 1971	June 15, 1950	3

Total Funded Debt (at par of exchange).....

Summary of changes in funded debt during

Outstanding at December 31, 1950.....
Less redemptions during year.....

Add new bond issues during year.....

Outstanding at December 31, 1951.....

Payable in the

Canadian.....
United States.....
Canadian, United States, or Sterling.....

(a) Callable at 101.

(b) Payable in U.S. funds.

(c) Payable in Can., U.S., or Sterling.

(d) Held by Province of Ontario and having terms identical with issues sold in the United States, by the Province of Ontario, on behalf of the Commission.

COMMISSION OF ONTARIO

DECEMBER 31, 1951

Province of Ontario (except issues marked*)

Principal outstanding December 31, 1951		
Southern Ontario and Thunder Bay Systems	Northern Ontario Properties	Total
\$	\$	\$
250,000.00	750,000.00	1,000,000.00
5,000,000.00(b)	.....	5,000,000.00(b)
10,000,000.00	.....	10,000,000.00*
5,000,000.00	.....	5,000,000.00
15,000,000.00	.....	15,000,000.00*
5,745,694.00	4,254,306.00	10,000,000.00
8,000,000.00(c)	.....	8,000,000.00(c)
200,000.00	.....	200,000.00
100,000.00	.....	100,000.00
.....	7,500,000.00	7,500,000.00
30,994,000.00	3,406,000.00	34,400,000.00
34,000,000.00	5,900,000.00	39,900,000.00
45,000,000.00	.....	45,000,000.00
24,000,000.00	6,000,000.00	30,000,000.00
13,064,306.00	1,758,694.00	14,823,000.00
33,000,000.00	11,400,000.00	44,400,000.00
37,000,000.00	6,775,000.00	43,775,000.00
17,500,000.00	1,916,000.00	19,416,000.00
38,000,000.00	11,650,000.00	49,650,000.00
11,864,000.00	.....	11,864,000.00
51,500,000.00	3,000,000.00	54,500,000.00
47,000,000.00(b)	3,000,000.00(b)	50,000,000.00*(b) (d)
15,240,000.00	4,610,000.00	19,850,000.00
50,000,000.00(b)	.....	50,000,000.00*(b) (d)
52,000,000.00	2,900,000.00	54,900,000.00
549,458.000.00	74,820,000.00	624,278,000.00

the year ended December 31, 1951

\$434,708,000.00	\$ 68,369,000.00	\$503,077,000.00
6,250,000.00	2,549,000.00	8,799,000.00
\$428,458,000.00	\$ 65,820,000.00	\$494,278,000.00
121,000,000.00	9,000,000.00	130,000,000.00
\$549,458,000.00	\$ 74,820,000.00	\$624,278,000.00

following currencies:

\$439,458,000.00	\$ 71,820,000.00	\$511,278,000.00
102,000,000.00	3,000,000.00	105,000,000.00
8,000,000.00	.....	8,000,000.00
\$549,458,000.00	\$ 74,820,000.00	\$624,278,000.00

THE HYDRO-ELECTRIC POWER
ADVANCES FROM THE PROVINCE OF
Portions of Province of Ontario bonds

Date of Maturity	Description	Interest rate
		per cent
December 1, 1952-1955.....	Serial bonds	4½
January 15, 1952-1957.....	Serial bonds	4½
November 1, 1952-1957.....	Serial bonds	4½
May 15, 1952-1968.....	Annuity bonds	4
May 15, 1952-1970.....	Annuity bonds	4½
January 15, 1952-1971.....	Annuity bonds	4½
June 1, 1952-1971.....	Annuity bonds	4
April 1, 1952.....	Bonds	5
May 1, 1959.....	Bonds	5
December 2, 1960.....	Bonds	5
Total Advances (at par of exchange).....		

Summary of changes in advances from Province

Balance of advances at December 31, 1950.....	
Less repaid during year.....	
Balance of advances at December 31, 1951.....	

Payable in the

Canadian or United States.....	
Canadian, United States, or Sterling.....	

COMMISSION OF ONTARIO

ONTARIO AS AT DECEMBER 31, 1951

issued for the purposes of the Commission

Balance of advances outstanding December 31, 1951		
Southern Ontario and Thunder Bay Systems	Northern Ontario Properties	Total
\$	\$	\$
758,908.41	3,916.07	762,824.48
1,411,482.11	4,006.21	1,415,488.32
2,244,012.86	6,370.72	2,250,383.58
7,704,849.76	348,283.27	8,053,133.03
7,205,102.17	353,247.48	7,558,349.65
3,536,770.46	502,078.02	4,038,848.48
4,699,431.39	1,006,580.15	5,706,011.54
8,713,226.28	4,799.73	8,718,026.01
12,261,016.44	1,197,907.71	13,458,924.15
13,007,118.01	1,086,984.27	14,094,102.28
<u>61,541,917.89</u>	<u>4,514,173.63</u>	<u>66,056,091.52</u>

of Ontario during year ended December 31, 1951

\$63,190,683.00	\$ \$4,592,359.40	\$67,783,042.40
1,648,765.11	78,185.77	1,726,950.88
<u>\$61,541,917.89</u>	<u>\$ 4,514,173.63</u>	<u>\$66,056,091.52</u>

following currencies:

\$ 8,713,226.28	\$ 4,799.73	\$ 8,718,026.01
52,828,691.61	4,509,373.90	57,338,065.51
<u>\$ 61,541,917.89</u>	<u>\$ 4,514,173.63</u>	<u>\$ 66,056,091.52</u>

SECTION III

THE COMMISSION AND ITS CUSTOMERS

Municipal Activities and Load Conditions Reviewed—Regional Reports—Summary Tabulations for Municipal Electrical Utilities—Frequency Standardization—Service to Industries—Lighting Service—Sales Service—Electrical Inspection

AT December 31, 1951, the Commission was supplying electric power to 1,175 municipalities in the Province under provisions of The Power Commission Act.

The municipalities may be divided into five groups according to the method under which they are served.

MUNICIPALITIES SERVED BY THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO DECEMBER 31, 1951

Group	Classification	Number
1	Municipalities owning their own distribution systems and served through municipal electrical utilities under:	
	(a) Cost contract.....	315
	(b) Fixed-rate contract.....	9
2	Municipalities served through other municipal electrical utilities.....	324
3	Municipality owning its own distribution system and served under special arrangement. (Will be in Group 1(a) after January 1, 1952).....	5
4	Municipalities, not in rural power districts, whose customers are served directly by the Commission.....	1
5	Municipalities in rural power districts where customers are served directly by the Commission on the municipalities' behalf (mainly township areas, but certain towns, villages, police villages, and improvement districts included through special provision).....	26
		819
Total.....		1,175

TYPES OF MUNICIPALITIES SERVED

Cities.....	27
Towns.....	119
Villages.....	148
Police Villages.....	177
Townships—Organized and Unorganized.....	684
Improvement Districts.....	9
Mining Townsites.....	11
Total.....	1,175

The expansion of business in large municipalities, so marked during 1950, has continued during 1951. The Commission has dealt during the year with a large number of requests from these municipalities seeking approval for the extension of distribution facilities and assent to the issue of debentures to cover the capital expenditures involved.

For most municipal electrical utilities revenues were sufficient to take care of the costs of operation in spite of rising costs, and only thirteen municipalities requested approval for an increase in retail rates.

Load Increase—Group 1(a)

The following table indicates the large increase in loads supplied to municipalities under cost contract in the Southern Ontario and Thunder Bay Systems:

Average of the Monthly Peak Loads Billed

	1950	1951	Increase or decrease	Increase
	kilowatts	kilowatts	kilowatts	per cent
Cities.....	973,084.5	1,075,445.7	102,361.2	10.5
Voted Areas.....	117,070.2	147,395.0	30,324.8	25.9
Municipalities (population 2,000 or more)	204,334.1	233,032.3	28,698.2	14.0
Municipalities (population under 2,000)	68,406.4	68,233.4	173.0	*
Total.....	1,362,895.2	1,524,106.4	161,211.2	11.8

*Four municipalities formerly in this group are now included in municipalities having a population of over 2,000.

Of the 315 municipalities under cost contract 302 or nearly 96 per cent showed an increase in power requirements. Of the remaining thirteen municipalities, all under 2,000 in population, twelve showed a decrease and one showed no change.

REPORTS FROM THE REGIONS RELATING TO MUNICIPAL ACTIVITIES

Through the nine regional offices which the Commission has established in the Province, assistance was rendered to municipalities in the many problems that arise in the daily operation of their electrical utilities. These include new rate schedules to ensure financial stability, methods of financing capital expenditures, and assistance in the construction of distributing stations and the rehabilitation of existing distribution systems.

The following gives brief particulars of some of the more important activities carried out in these and other municipalities in each region.

WESTERN REGION

Chatham—An extension to the present office building was started during the year 1951. It is being constructed on adjoining property purchased for this purpose a number of years ago.

The local commission constructed a temporary 5,400-kva, 60-cycle, 26.4-kv step-down station, together with duplicate primaries and 575-volt facilities to provide 60-cycle service to a number of industrial customers.

Dresden—A new office and garage building was officially opened during July 1951.

Ingersoll—A new 2,000/3,600-kva, dual-frequency municipal station was placed in service in October 1951 to relieve the loading on Municipal Station No. 1. This station was initially energized at 60 cycles and became the source of supply for the advanced frequency standardization program, which will include major industrial power customers.

Leamington—This was the first year in which the three utilities—hydro, gas, and water—were administered by a Public Utilities Commission.

London—During the year the Public Utility Commission was engaged in the general work of readjusting the distribution system following conversion to 60 cycles. A total of 184 new distribution transformers, with a cumulative capacity of almost 4,500 kva, was installed.

The street-lighting system was rehabilitated by the replacement of over 900 obsolete fixtures with modern luminaires.

St. Thomas—A garage was built during the year and construction was begun on a building to house the offices, stores, and workshop.

Sixty-cycle power was made available on May 10, 1951 to permit advanced frequency standardization.

Sarnia—The main office building of the Sarnia Hydro-Electric Commission has been considerably enlarged and modernized during the year. It houses the general offices and includes sales and display space and certain storage, garage, and workshop facilities.

The Corporation annexed a section of the Township of Sarnia which previously served some 2,720 rural customers.

Strathroy—Prior to and during frequency standardization, considerable improvement in service security was achieved by the construction of loop primary feeders.

Tecumseh—The existing office building was renovated and modernized.

Tillsonburg—The new 2,000/3,600-kva, dual-frequency municipal station, located on Bloomer Street, was placed in service. The distribution system is being changed from 3-wire ungrounded to 4-wire grounded.

Wallaceburg—The Dell Street Distributing Station was increased in capacity by 5,400 kva at 60 cycles and became the initial source of 60-cycle power for the advanced frequency standardization program. Officially this commenced on July 12, 1951.

Windsor—A new 3,600-kva, 60-cycle distributing station constructed during the year will provide the initial 60-cycle power supply for the regular frequency standardization program commencing January 3, 1952. Facilities were also provided for the advanced conversion of certain large industries. These facilities include temporary transformation and a permanent 26.4-kv feeder approximately $1\frac{3}{4}$ miles in length.

Woodstock—The new 1,500/2,700-kva, dual-frequency municipal station, located on Henry Street, was placed in service.

A number of step-down stations for 60-cycle service were installed to permit advanced frequency standardization.

A portion of Blandford Township was annexed, adding 178 new customers.

WEST CENTRAL REGION

Brantford—Considerable construction was undertaken by the Brantford Commission during the year to permit advanced frequency standardization of a number of industries, and to provide a supply of 60-cycle power in the business area.

Brantford Township—Municipal Station No. 3, a new 2,000/3,600-kva dual-frequency distributing station, was placed in service, and the capacity of Municipal Station No. 2 was increased from 1,000 to 2,000 kva.

Clinton—In preparation for frequency standardization, assistance was given to the local commission in rearranging and rebuilding a portion of the distribution system. The primary distribution voltage was changed from 2,200-volt delta to 4,000/2,300-volt star connection.

Elmira—Municipal Station No. 2 was completed. It consists of a permanent building housing metal-clad, 4,000/2,300-volt switching equipment supplied from one 1,500/2,700-kva, 3-phase, outdoor-type transformer.

A temporary 60-cycle transformer was installed on Municipal Station No. 2 property so that frequency standardization might proceed in a large chemical industry under the advanced standardization program.

Galt—During 1951, the first 60-cycle power was supplied to some ten major power service customers. To supply these customers, approximately 8,000 kva of 60-cycle distributing station transformers have been added to the municipal system.

Further annexation of the Township of North Dumfries increased the area of the city by some 1,200 acres and brought 325 additional customers.

Goderich—Municipal Station No. 2, with a capacity of 3,000 kva at 60 cycles, was placed in service. Frequency standardization in the municipality was in this way facilitated.

Guelph—Advanced frequency standardization was begun. This involved the installation of three 60-cycle distributing stations and distribution facilities to supply industrial and commercial customers.

Hamilton—The new office building at John and Rebecca Streets was completed and occupied.

Considerable construction was undertaken to permit advanced frequency standardization.

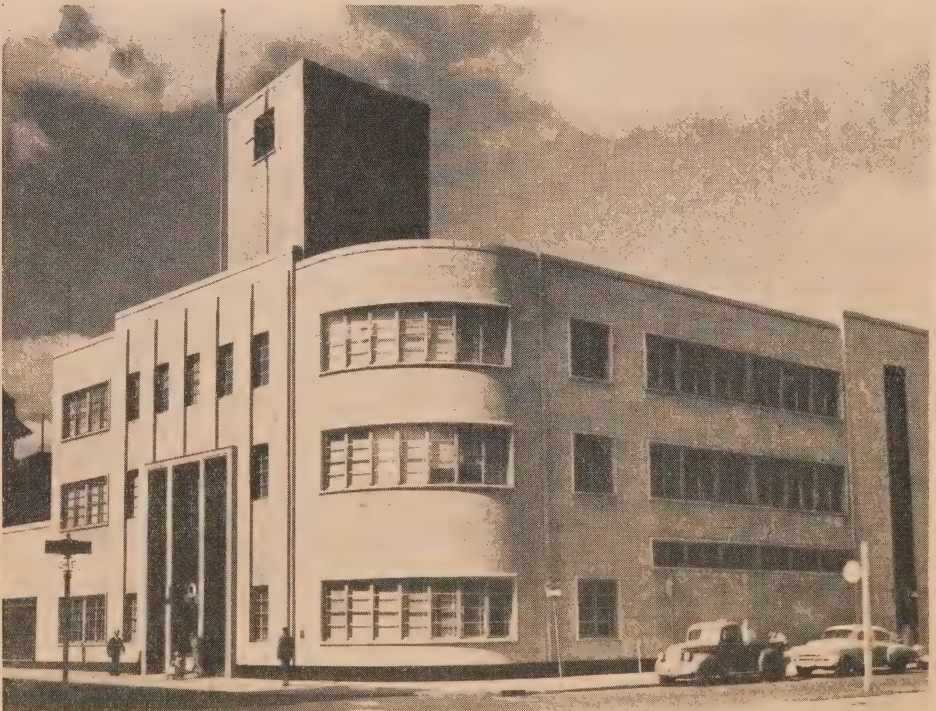
On August 5, 1951 the balance of the former Dominion Power and Transmission 66 $\frac{2}{3}$ -cycle system, serving approximately 22,000 kilowatts of industrial load, was standardized at 60 cycles.

Hespeler—During the year the conversion from series to multiple street lighting was completed. Fifteen new street lights were added.

Kitchener—In order to permit advanced frequency standardization, the Commission constructed new lines and distributing stations.

The change-over from series to multiple street lighting was completed for the whole city.

Mitchell—The municipality built a new outdoor-type distributing station containing three 667-kva, single-phase, 60-cycle transformers. Upon completion of frequency standardization, the old 25-cycle distributing station was dismantled.



HAMILTON—The administration building of the Hydro-Electric Commission

Preston—Following the fire which destroyed the local distributing station in November 1950, orders were placed and designs completed for three new distributing stations. Two of these, each consisting of one 1,500/2,700-kva, dual-frequency transformer with metal-clad switchgear, are located approximately in the centre of the municipality. These were placed in service late in the year, one, in keeping with the advanced frequency standardization program, being supplied from the Commission's system at 60 cycles, and the other at 25 cycles.

Seaforth—The Public Utility Commission built a new outdoor-type, 60-cycle distributing station containing three 667-kva, single-phase transformers. This was used to advantage during the period of frequency change for a 60-cycle supply. The old municipal station which supplied the 25-cycle power was dismantled when standardization was completed.

Simcoe—The modernization of local street lighting was continued. Underground ducts and 23 new units were installed in the main business district. Seventy-five units were converted from series to multiple system on residential and industrial streets.

Stratford—In anticipation of frequency standardization, a 5,000-kva, 60-cycle distributing station was placed in service. Several power service customers were supplied at 60 cycles in the latter part of the year.

Waterloo—The change-over from series to multiple street lighting was carried on and a number of new units were installed.

Under the advanced frequency standardization program, eleven industrial plants undertook, and some had completed, inventory of their 25-cycle equipment.

NIAGARA REGION

Merritton—A new 1,000 1,800-kva, dual-frequency station was completed and will be placed in service at 60 cycles early in 1952.

Niagara Falls—Two 1,500-kva, 60-cycle stations owned by the Niagara Falls Hydro-Electric Commission and two customer-owned, 60-cycle stations were placed in service.

St. Catharines—To meet increased demands, two new 60-cycle substations were built and put in service.

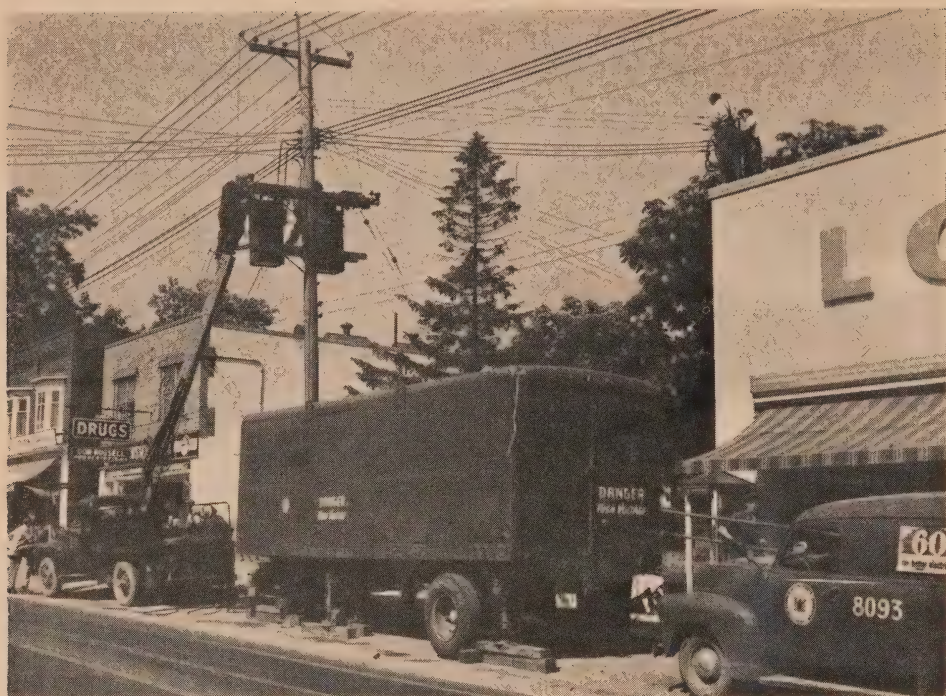
Stamford Township—A new 1,500 2,700-kva, dual-frequency substation was placed in service on Kalar Road.

TORONTO REGION

Aurora—A new Hydro Commission building, including office, garage, and warehouse, was completed and occupied in 1951.

Bolton—Frequency standardization of the local system was completed early in the year.

Brampton—A new municipal substation of 2,000/3,600-kva capacity was installed to supply the northern section of the municipality.



A MOBILE FREQUENCY-CHANGER IN OPERATION

These units are capable of supplying power at 25 or 60 cycles as required in standardization operations

Bronte—On December 3, 1951 the electors of Bronte voted in favour of purchasing power from the Commission under cost contract. Frequency standardization from 66 $\frac{2}{3}$ to 60 cycles was completed in May 1951.

East York Township—The new Hydro Commission office was completed and officially opened on October 31, 1951. An additional municipal station of 5,000-kva capacity and a new customer-owned substation were placed in service in December 1951.

Etobicoke Township—Two new distributing stations, Humber Bay and Westmount, were constructed to serve the township load. The capacity at Rosethorn Distributing Station was increased from 3,000 to 6,000 kva. Seven new power service customers taking power at 26.4 kv were connected during 1951. Frequency standardization was completed in late 1951 except for a small area. A new garage building was constructed to accommodate 22 vehicles.

Markham—Frequency standardization of the local system was completed early in 1951.

Mimico—A 2,500-kva temporary station was installed to facilitate rebuilding of the present Municipal Station No. 1. Frequency standardization was completed in 1951.

Newmarket—Approximately 275 acres of Whitchurch Township were annexed by Newmarket. Thirty customers were taken over from Richmond Hill Rural Operating Area.

New Toronto—Frequency standardization of the larger power service customers commenced in 1951.

North York Township—Five new municipal stations having two 60-cycle units of 5,000 kva each, and three dual-frequency, 3,000/5,400-kva units went into service in the year. Two new customer-owned industrial substations were connected. Frequency standardization of 2,068 customers in the westerly portion of the township was carried out. There were approximately 4,500 new services connected in 1951.

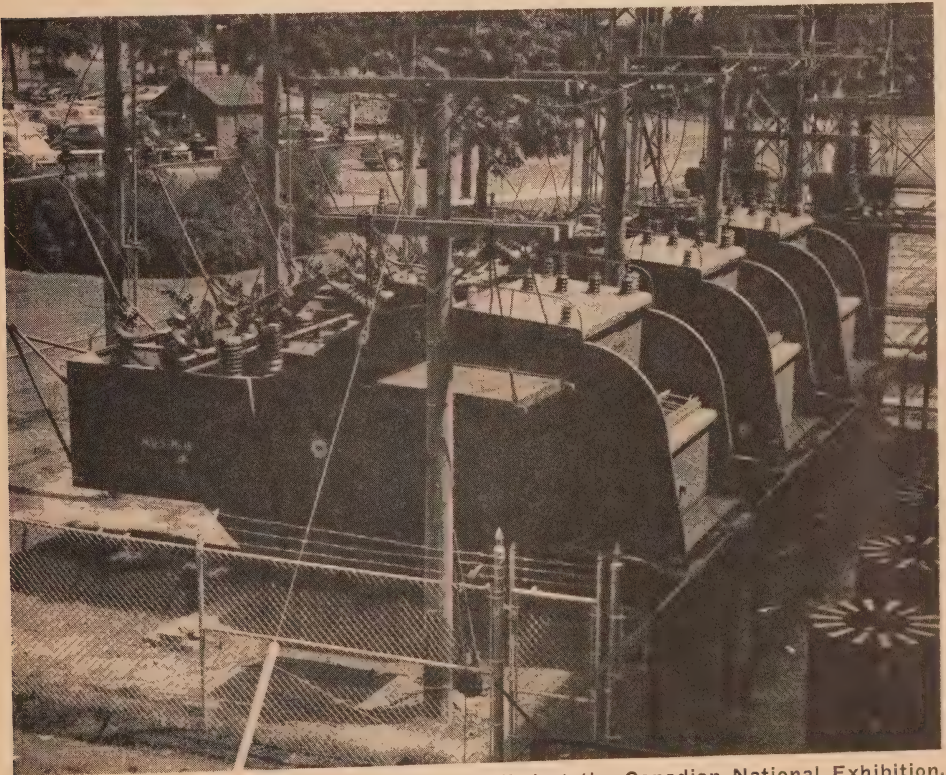
Oakville—Frequency standardization from 66 $\frac{2}{3}$ to 60 cycles was completed in May 1951. A 2,000-kva temporary municipal station was placed in service to take care of load growth.

Port Credit—The first Public Utilities Commission for the municipality was elected in 1951.

Scarborough Township—A new 3,000-kva municipal station and two new customer-owned substations were placed in service in 1951.

Approximately 2,500 new services were connected during the year.

Swansea—Frequency standardization of the local system was completed in the fall of 1951. A new municipal station of 3,000-kva capacity was constructed.



Temporary 60-cycle distributing station installed at the Canadian National Exhibition, Toronto



TORONTO TOWNSHIP—The new office building of the Hydro-Electric Commission

Toronto—A supply of 60-cycle power at 13.2 kv was made available to the system from Strachan, Wiltshire, and Thorncliffe Transformer Stations. Satisfactory progress was made in the work of installing an underground 13.2-kv cable system to supply 60-cycle power to industries for new and growth load and for frequency standardization in plants having growth load. Sixty-cycle power was provided for street lighting from Terauley and Carlaw substations, and for the Toronto Transportation Commission's Pleasant Boulevard and Coxwell Avenue substations.

During the year the removal of all overhead lines and poles on College Street from Yonge Street to Spadina Avenue was completed. Similar removal was started on Gerrard Street.

Toronto Township—A new office and stores building was completed and officially opened in June 1951. A new municipal station of 2,000/3,600-kva capacity was also constructed in the Erindale area to take care of load growth.

Trafalgar Township—Frequency standardization from $66\frac{2}{3}$ to 60 cycles was completed in May 1951.

Weston—A new municipal station of 2,000/3,600-kva capacity was constructed.

Woodbridge—Frequency standardization of the local system was completed early in 1951.

York Township—Four new 60-cycle temporary substations and distribution facilities were installed under the advanced frequency standardization program to provide power at the higher frequency for load growth and new customers in this municipality.

GEORGIAN BAY REGION

Barrie—A modern office building providing spacious accommodation was officially opened on November 14, 1951.

A new municipally-owned, 3,000-kva distributing station was put in service to supply the load in the eastern portion of the town.

Grand Valley—Extensive rehabilitation of the distribution system has been completed.

Holstein—A line rehabilitation program has been completed in preparation for changing the distribution system from 4-kv to 8-kv operation.

Magnetawan—The Corporation entered into an agreement with the Commission for a supply of power. A public utilities commission was formed, the distribution system was purchased from Daley Bros., and extensive rehabilitation work completed. Connection was made to the Southern Ontario System on July 12, 1951.

Midland—A new municipally-owned, 3,000-kva station was put in service to supply power at 4,160 volts in preparation for a distribution voltage change from 2,300-volt delta to 4,000-volt Y operation.

Owen Sound—The change of distribution voltage from 2,300-volt delta to 4,000-volt Y operation has been completed.

Port McNicoll—The Canadian Pacific Railway grain elevator, previously supplied as a Georgian Bay Division customer, was transferred to the local municipal system. The average municipal load was thus increased from 160 to 1,325 kilowatts.

Southampton—The distribution system was changed from 2,300-volt delta to 4,000-volt Y operation and extensive rehabilitation work was carried out.

Village of Wasaga Beach—On August 25, 1951 the Corporation voted in favour of entering into a cost contract for power with the Commission.

EAST CENTRAL REGION

Belleville—A new 3,750-kva substation, Municipal Station No. 3, was added to serve the southeast section of the city.

Bloomfield—New multiple street lighting was installed on the main street. A new 300-kva temporary distributing station was installed by the Commission to serve the municipality.

Bobcaygeon—The capacity of the distributing station serving Bobcaygeon was increased to meet the growing loads in the municipality.

Bowmanville—A water-heater control system was installed.

Cobourg—Work was commenced on the installation of a new street-lighting system.

Kingston—The conversion from series to multiple street lighting was started.

Lindsay—A new 44-kv line was constructed from Albert Street Junction to the proposed new Lindsay Distributing Station.

Marmora—The distributing station capacity was increased to 600 kva to provide for increased load.

Napanee—Work was started on a new pole line from the distributing station to provide an auxiliary source of supply to the municipality.

Norwood—The entire distribution system was rebuilt during the year and a new street-lighting system installed.

Oshawa—The municipality annexed a large section of the surrounding rural district on January 1, 1951. This resulted in the addition of approximately 2,300 new customers to be served by the Oshawa Public Utilities Commission.

Port Hope—New series street lighting was installed on the main street.

Stirling—A new 1,000-kva distributing station was installed to replace the existing distributing station, which was overloaded.

EASTERN REGION

Alexandria—Approval was given for the Public Utilities Commission to erect a new public utilities building. Construction of this building is nearing completion.

Arnprior—Approval was obtained for capital expenditures to cover improvements in the distribution system, and the erection of new street-lighting equipment.

Athens—Authority was granted for an expenditure to modernize the street-lighting system.

Cobden—Approval was obtained for capital expenditure to complete the voltage change-over and the rehabilitation of the local distribution system.

Eganville—On October 1, 1951 this municipality entered into a cost contract with the Commission. Initial service will be taken early in 1952.

Ottawa—Approval was obtained for capital expenditures to cover the increase in capacity of existing distributing stations and the installation of a new distributing station to meet increasing demands in the enlarged city area.

Renfrew—Approval was given to an expenditure which would provide for standardization of the distribution system voltage and for changes in the generating stations of the Renfrew Hydro-Electric Commission.

Richmond—This municipality obtained its power supply from a new distributing station located just outside the village.

Winchester—The capacity of the distributing station was increased from 600 kva to 2,000 kva.

NORTHEASTERN REGION

Capreol—The capacity of the municipal station was increased from 450 kva to 1,500 kva.

Hearst—Municipal by-laws were passed giving approval to a power agreement with the Commission and expenditures for a distributing station. Temporary power was first supplied on December 21, 1951.

Massey—A valuation of the distribution system was made with a view to obtaining a power supply from the Commission. The ratepayers voted in favour of an agreement with the Commission.

Sturgeon Falls—Power was first supplied by the Commission under a contract on April 1, 1951.

Sudbury—A new municipal station was installed with a capacity of 5,000 kva.

Timmins—The capacity of Municipal Station No. 1 was increased to 5,000 kva. The distribution system was changed from 2,300-volt delta to 4,000-volt star operation.

Webbwood—A valuation of the distribution system was made with a view to obtaining a power supply from the Commission. The ratepayers voted in favour of entering into an agreement with the Commission.

West Ferris Township—An agreement was signed with the Commission for a supply of power and the purchase of the distribution system.

NORTHWESTERN REGION

Improvement District of Atikokan—The distribution system has been extensively enlarged to take care of the expansion of the municipality resulting from the increased development of Steep Rock Iron Mines Limited.

Fort William—A second unit-type distributing station having an initial capacity of 4,000 kva has been constructed. Orders have been placed for equipment which will increase this distributing station to 8,000 kva in 1952.

Nipigon Township—The distribution system has been rebuilt and overhauled preparatory to changing from 2,300-volt to 4,000-volt operation.

Port Arthur—The installation of the third cottage-type distributing station was completed. Its 3,000-kva capacity is to take care of increased loading on the system.

The street-lighting system was improved by the installation of 200 new pendant-type luminaires.

Improvement District of Terrace Bay—The distribution system was extended very considerably because of the housing program required by the expansion of Long Lac Pulp & Paper Company, Limited.

SUMMARY TABULATIONS AND GRAPHS

The accompanying tables relating to municipalities, groups 1, 2, and 4, give information on consumption and cost for domestic and commercial light services for the years 1914 to 1951. The graphs show corresponding data, by groups according to population. The larger voted areas in which the population exceeds 10,000 (see statement "D") are grouped for these graphs with the cities.

The municipalities referred to in 1951 include the 26 whose utilities are owned and operated by the Commission in addition to those 324 whose

DOMESTIC SERVICE IN MUNICIPALITIES, GROUPS 1, 2, and 4

1914 to 1951

Year	Total annual revenue	Total energy consumed	Customers	Average cost per kwh	Customer's average monthly bill	Customer's average monthly con- sumption
	\$	kwh	No.	cents	\$	kwh
1913.....			49,200			
1914.....	730,168	14,359,100	64,866	5.08	1.06	21
1915.....	854,748	20,935,000	85,865	4.08	0.92	22
1916.....	992,628	29,359,900	108,364	3.42	0.82	24
1917.....	1,340,855	41,930,200	131,313	3.20	0.91	29
1918.....	1,583,677	52,731,700	146,885	3.00	0.92	31
1919.....	1,933,577	68,409,100	169,455	2.82	1.01	35
1920.....	2,514,658	98,211,000	193,892	2.56	1.15	45
1921.....	3,086,051	124,619,800	219,465	2.48	1.24	50
1922.....	3,761,172	166,182,000	245,577	2.26	1.34	59
1923.....	4,955,420	242,926,600	286,852	2.04	1.54	76
1924.....	5,548,835	292,608,400	303,787	1.89	1.56	80
1925.....	6,414,134	342,356,700	326,307	1.85	1.67	90
1926.....	7,353,394	404,722,959	349,882	1.81	1.79	98
1927.....	8,497,190	469,851,690	387,573	1.80	1.87	103
1928.....	9,411,812	551,010,035	408,071	1.71	1.97	115
1929.....	10,256,860	612,141,722	424,419	1.67	2.05	122
1930.....	10,752,720	671,028,310	433,260	1.61	2.09	130
1931.....	11,226,091	704,784,457	447,466	1.59	2.12	133
1932.....	11,676,222	740,900,418	452,615	1.57	2.15	136
1933.....	11,639,178	742,195,402	460,878	1.57	2.10	134
1934.....	12,078,069	797,532,709	463,913	1.51	2.17	143
1935.....	12,393,536	826,972,873	471,265	1.50	2.19	146
1936.....	12,922,466	881,972,324	482,557	1.47	2.23	152
1937.....	12,680,921	926,350,703	490,140	1.37	2.16	157
1938.....	12,880,180	1,003,489,453	507,132	1.28	2.12	165
1939.....	13,300,898	1,056,310,109	518,123	1.26	2.14	170
1940.....	13,905,290	1,115,888,837	531,514	1.25	2.18	175
1941.....	14,452,796	1,169,273,964	546,613	1.24	2.20	178
1942.....	15,022,931	1,224,195,712	559,605	1.23	2.24	182
1943.....	15,069,547	1,266,930,625	570,470	1.19	2.20	185
1944.....	15,528,445	1,348,099,019	579,890	1.15	2.23	194
1945.....	16,053,818	1,494,258,124	608,905	1.07	2.20	205
1946.....	17,526,854	1,704,125,246	628,118	1.03	2.32	226
1947.....	18,937,674	1,870,974,898	648,282	1.01	2.43	240
1948.....	20,295,932	2,032,922,876	671,914	0.99	2.51	252
1949.....	21,947,915	2,224,473,480	706,294	0.99	2.59	262
1950.....	29,064,176	2,805,149,825	767,286	1.04	3.15	304
1951.....	32,905,664	3,165,537,195	800,033	1.04	3.43	330

utilities report as customers of the Commission in statements "A", "B", and "D" in Section VIII of this Report. Figures on revenue and consumption for the five additional municipalities served through those 324 customer utilities are, of course, incorporated. The consolidated balance sheet and operations reports of these utilities are to be found on pages 112-115 in Section VIII.

COMMERCIAL LIGHT SERVICE IN MUNICIPALITIES, GROUPS 1, 2, and 4

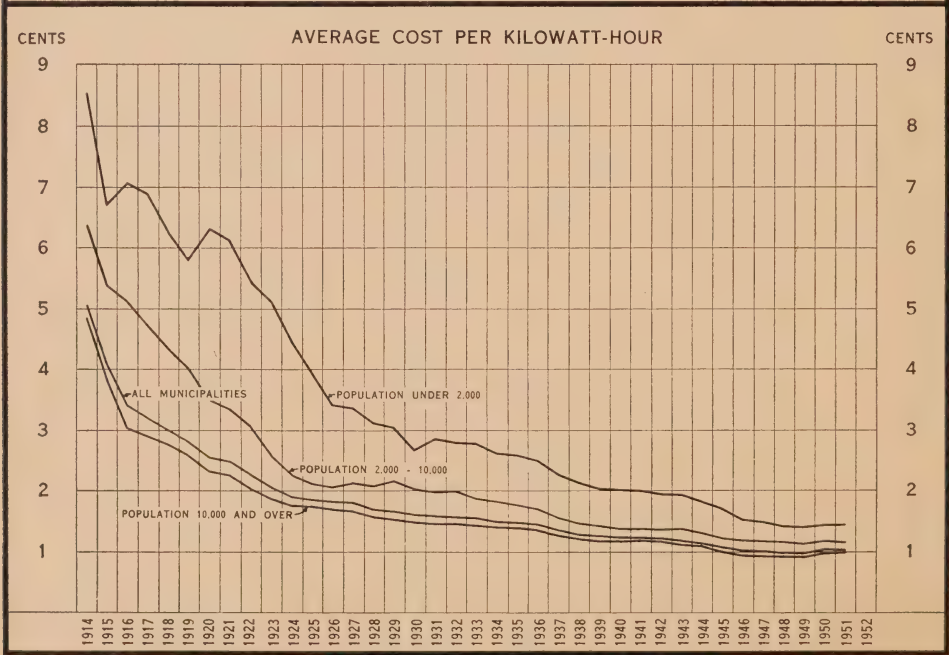
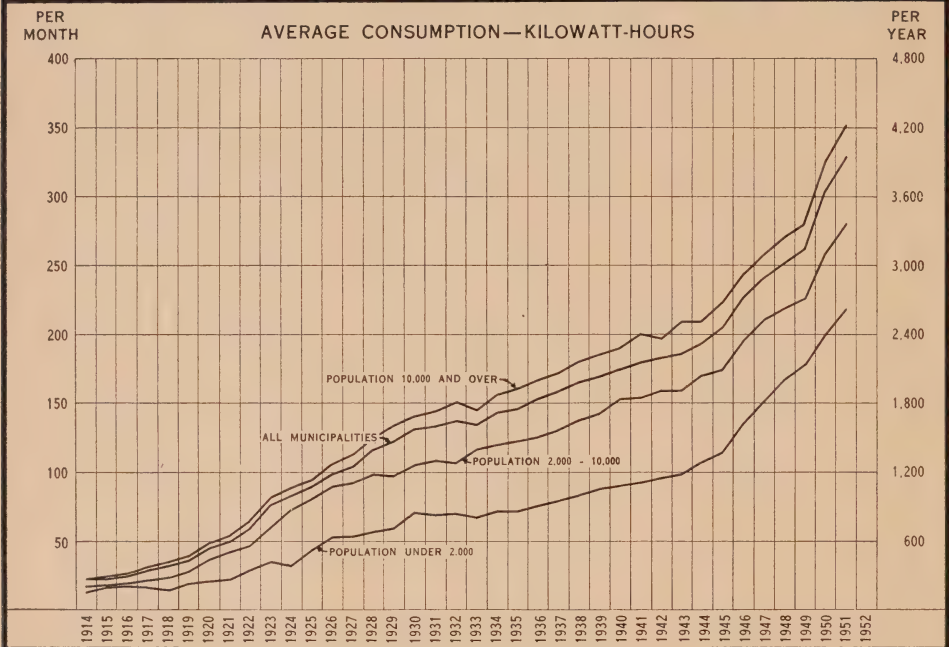
1914 to 1951

Year	Total annual revenue	Total energy consumed	Customers	Average cost per kwh	Customer's average monthly bill	Customer's average monthly con- sumption
	\$	kwh	No.	cents	\$	kwh
1913.....			13,113			
1914.....	624,781	15,669,700	15,657	4.00	3.63	91
1915.....	649,585	21,444,900	19,324	3.03	2.95	97
1916.....	753,784	26,866,000	22,216	2.82	2.87	102
1917.....	860,475	31,983,500	27,453	2.69	2.77	103
1918.....	947,769	35,053,500	29,570	2.70	2.70	99
1919.....	1,158,406	47,087,000	33,307	2.46	3.03	123
1920.....	1,477,963	59,336,900	36,496	2.50	3.51	140
1921.....	1,818,211	68,863,500	39,333	2.64	3.98	151
1922.....	2,143,981	81,216,000	43,098	2.64	4.26	162
1923.....	2,613,257	105,482,600	46,383	2.46	4.80	196
1924.....	2,907,427	120,474,800	50,137	2.41	4.99	207
1925.....	3,836,946	151,555,200	56,018	2.54	5.98	235
1926.....	4,176,595	171,797,014	58,444	2.43	6.08	250
1927.....	4,823,781	200,606,137	64,039	2.40	6.39	267
1928.....	5,436,795	234,526,831	68,013	2.32	6.66	287
1929.....	5,893,217	272,343,330	70,106	2.16	7.11	329
1930.....	6,094,871	287,838,022	71,873	2.11	7.15	338
1931.....	6,377,520	305,121,640	75,286	2.09	7.20	344
1932.....	6,402,882	306,596,543	75,705	2.09	7.05	338
1933.....	6,149,792	292,335,489	75,443	2.10	6.79	323
1934.....	6,344,921	306,632,722	75,016	2.07	7.05	341
1935.....	6,601,461	327,413,421	74,884	2.02	7.35	364
1936.....	7,001,893	355,235,553	75,878	1.97	7.69	390
1937.....	6,676,968	393,067,119	76,620	1.70	7.26	428
1938.....	6,909,454	427,020,841	78,021	1.62	7.38	456
1939.....	7,256,262	459,635,100	78,949	1.58	7.66	485
1940.....	7,785,024	508,986,422	79,512	1.53	8.16	533
1941.....	7,991,091	540,995,581	79,824	1.48	8.34	565
1942.....	7,695,928	531,680,336	77,326	1.45	8.29	573
1943.....	6,787,241	472,129,977	76,194	1.44	7.42	516
1944.....	7,298,848	524,905,356	78,256	1.39	7.77	559
1945.....	8,429,573	634,878,480	84,413	1.33	8.32	627
1946.....	9,364,009	725,475,237	89,109	1.29	8.76	679
1947.....	10,277,574	797,642,711	91,926	1.29	9.32	723
1948.....	10,182,051	769,650,340	95,239	1.32	8.91	673
1949.....	10,890,639	819,475,244	98,682	1.33	9.20	692
1950.....	15,231,494	1,080,316,296	107,817	1.41	11.73	832
1951.....	17,549,402	1,254,339,597	111,154	1.40	13.16	940

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

DOMESTIC SERVICE

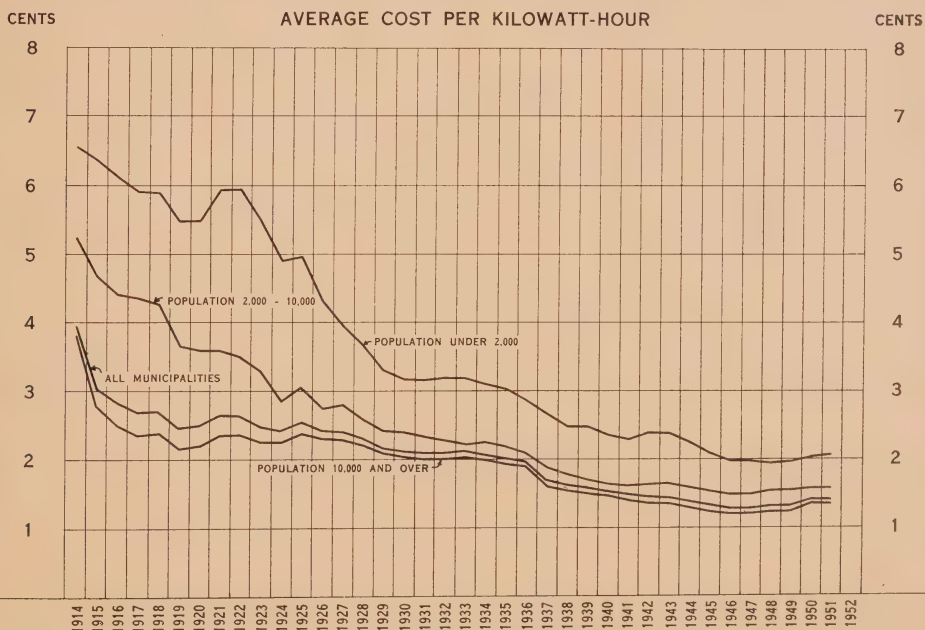
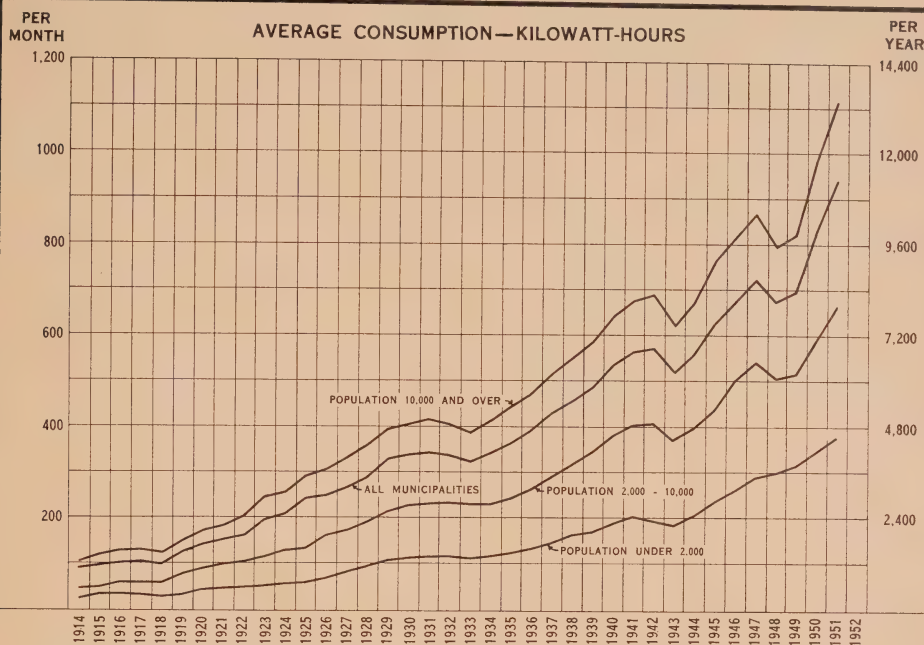
MUNICIPAL ELECTRICAL UTILITIES



THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

COMMERCIAL LIGHT SERVICE

MUNICIPAL ELECTRICAL UTILITIES



FREQUENCY STANDARDIZATION

During 1951 the Frequency Standardization Division has standardized at 60 cycles a customer load estimated at 195,000 kilowatts at time of standardization. Of this load 178,000 kilowatts came under the main program and 17,000 kilowatts under the advanced program undertaken by municipalities. It is estimated that 312,000 kilowatts in terms of customer load at time of standardization have been standardized since the commencement of the operation.

At December 31, approximately one-third of the area comprising the "25-cycle island" of the Southern Ontario System had been standardized.

The main program has been carried out in three areas simultaneously from operating bases in Greater Toronto, London, and Seaforth. In the Toronto area, when standardization was completed in Markham, Woodbridge, Bolton, and surrounding districts, the base of operations was transferred to the A. W. Manby Service Centre at Islington. From there standardization was completed in the lakeshore municipalities of Swansea, Mimico, Oakville, Bronte, and parts of North York and Weston. Similarly when the London area was standardized arrangements were made to transfer operations to Windsor where some industrial standardization began about midyear. At the end of the year the area surrounding Seaforth and St. Marys was standardized and the local base of operations moved to Stratford.

The following table summarizes the progress of frequency standardization, under the main program, up to December 31, 1951.

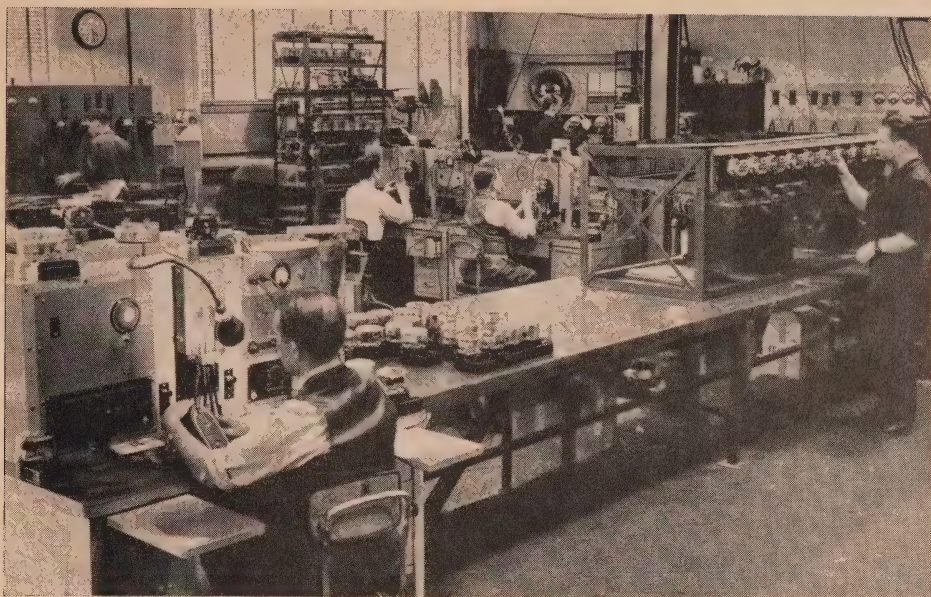
PROGRESS OF FREQUENCY STANDARDIZATION BY CLASSES OF CUSTOMERS

Class of customer	Standardized during 1951			Cumulative total to December 31, 1951		
	Customers	Connected hp	Items	Customers	Connected hp	Items
Domestic.....	70,746 *12,152		299,870 *21,593	145,288 *16,507		562,416 *30,706
Commercial.....	7,172 *975		48,466 *1,010	13,280 *1,037		87,312 *1,262
Power.....	964 *355	146,086 *40,845	69,305 *8,886	1,885 *450	241,048 *50,755	100,175 *10,279
Total.....	92,364	186,931	449,130	178,447	291,803	792,150

*Standardized by customers through local dealers or contractors.

In addition to the completed program reported in the above table, the equipment of an additional 38,559 customers representing 216,773 items has been inventoried and other preparations were made for standardization during 1952.

With a view to curtailing load growth on the 25-cycle system a number of customers who planned extension of their plants have been authorized to proceed with standardization. The customers so authorized represented a



METER-SHOP AT A. W. MANBY SERVICE CENTRE
Meters are being tested after conversion to 60-cycle operation

total of over 16,000 connected horsepower. Through the regional offices 232 industrial customers were authorized to proceed with inventory of equipment, engineering, and estimating the cost of standardizing their plants, an operation involving 204,103 connected horsepower.

Special consideration is being given to the reclamation of equipment removed from customers' premises under the program. The service shop at A. W. Manby Service Centre has developed rewind designs for many 25-cycle motors. Of the 44,000 motors rewound for 60-cycle operation during the year, 24,000 were rewound by the service shop. Salvage equipment amounted to more than ten thousand tons.

Through agreements negotiated with manufacturers, the manufacture of dual-frequency equipment for sale in the 25-cycle area was extended. To December 31 a total of 213,000 dual-frequency lighting ballasts and 38,000 pieces of other dual-frequency equipment had been manufactured and sold under these agreements. Investigations are being carried out on dual-frequency refrigerator units, and production of these units is considered a possibility in the near future. The use of such dual-frequency equipment will materially reduce the cost of the frequency standardization program.

The conversion of meters for the municipalities was carried out with increased efficiency. Approval has been obtained for the standardization of some older types of meters with a resulting reduction in cost.

For the handling of service calls during standardization Commission trucks have been equipped with two-way radio sets. Servicemen are dispatched from one customer to the next by radio message from the operating area office. This procedure, inaugurated this year, has resulted in particularly prompt and efficient service.

SERVICE TO DIRECT INDUSTRIAL CUSTOMERS

Power service customers are normally supplied with power by municipal electrical utilities or rural operating areas. If, however, the customer cannot conveniently be served through the normal supply channels, or is located in unorganized territory, he may be supplied as a direct industrial customer of the Commission. The 203 industrial customers supplied in this way in 1951 represent most of the basic industries in the Province.

The following summary of direct industrial customers, grouped according to types of industry, shows for each group the kilowatt-hours of energy used and the average of the monthly peak loads for 1951.

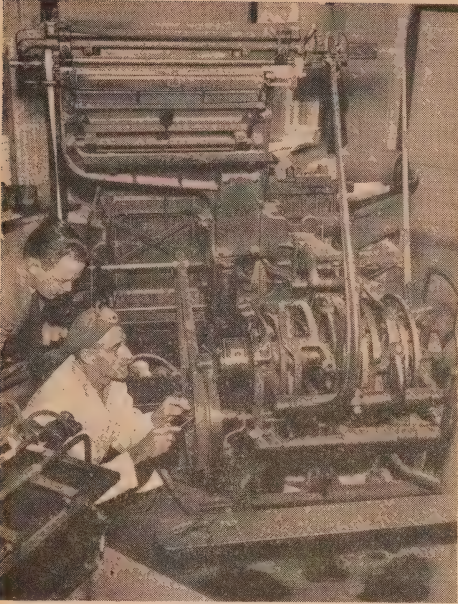
PRIMARY POWER AND ENERGY SUPPLIED TO DIRECT INDUSTRIAL CUSTOMERS, BY TYPES OF INDUSTRY

Type of industry	Average of the monthly peak loads kilowatts	Energy used kilowatt-hours
Fulp and Paper.....	170,461.8	1,269,371,038
Mining:		
(a) Gold.....	94,408.8	644,108,190
(b) Silver and Cobalt.....	2,587.5	12,239,540
(c) Base Metals.....	92,647.8	668,189,786
(d) Non-Metals.....	2,451.0	14,693,501
Quarrying, Cement, Basic Building Materials.....	19,336.8	122,034,538
Steel and Electro-Metallurgical.....	214,921.0	1,119,754,038
Abrasives.....	71,415.6	523,744,126
Chemical, Electro-Chemical (including Cyanamid).....	146,493.2	1,106,095,470
Grain Elevators and Milling.....	8,288.4	36,193,400
Transportation Services and Communications.....	2,931.0	9,798,197
Government Services and Institutions.....	13,732.6	66,300,991
General Manufacturing.....	47,594.7	234,785,182
Miscellaneous.....	51,993.3	419,436,919
Total.....	939,263.5	6,246,744,916

The amount of energy used by the pulp and paper plants in 1951 increased 7.7 per cent over 1950, owing in large measure to the modernization and increased output of existing plants.

In spite of prevailing difficulties, the gold-mining industry increased its use of energy by 3.3 per cent. The energy consumption of silver-cobalt mines, while small in total, reflects the favourable price of silver and the urgent demand for cobalt, and increased by some 41 per cent over 1950. The base-metal mines, as a result of higher demands for nickel, especially by defence industries, increased energy consumption by some 23 per cent. It is interesting to note that in 1951 for the first time the base-metal mines in Ontario purchased more energy from the Commission than the gold mines.

The steel and electro-metallurgical industries used some 34 per cent more kilowatt-hours for furnace loads, while another major user of electric furnace power, the abrasive industry, increased its consumption by 45 per cent.



FREQUENCY STANDARDIZATION—INDUSTRIAL

Left: A linotype machine in a printing plant
Right: A punch press in an automotive plant

In the electro-chemical industry in the Province there was an increase of 17 per cent in the amount of energy used. A large part of this increase occurred in the manufacture of chlorine and caustic soda. The special industries grouped under "General Manufacturing" showed an increase of 20 per cent in energy consumption largely due to defence production.

INDUSTRIAL SURVEYS

As a service to municipal, rural, and direct industrial power customers, surveys were conducted in 69 industrial plants throughout the Province in 1951. These surveys are made for the purpose of improving the plant power factor. Increase in efficiency either through correct loading of motors or through improvement in the plant distribution system usually results in the reduction of the customer's cost of power.

The survey is of special value to medium-sized plants which normally do not have sufficient technical and engineering services within their own organization to perform this type of work.

SALES SERVICE

Field representatives are in constant contact with municipalities and assist the utility in familiarizing customers with the merits and successful operation of flat-rate water heating. Sectioned water-heater displays, made available by the Consumer Service Division, are used by various municipal utilities to promote the most efficient type of service.

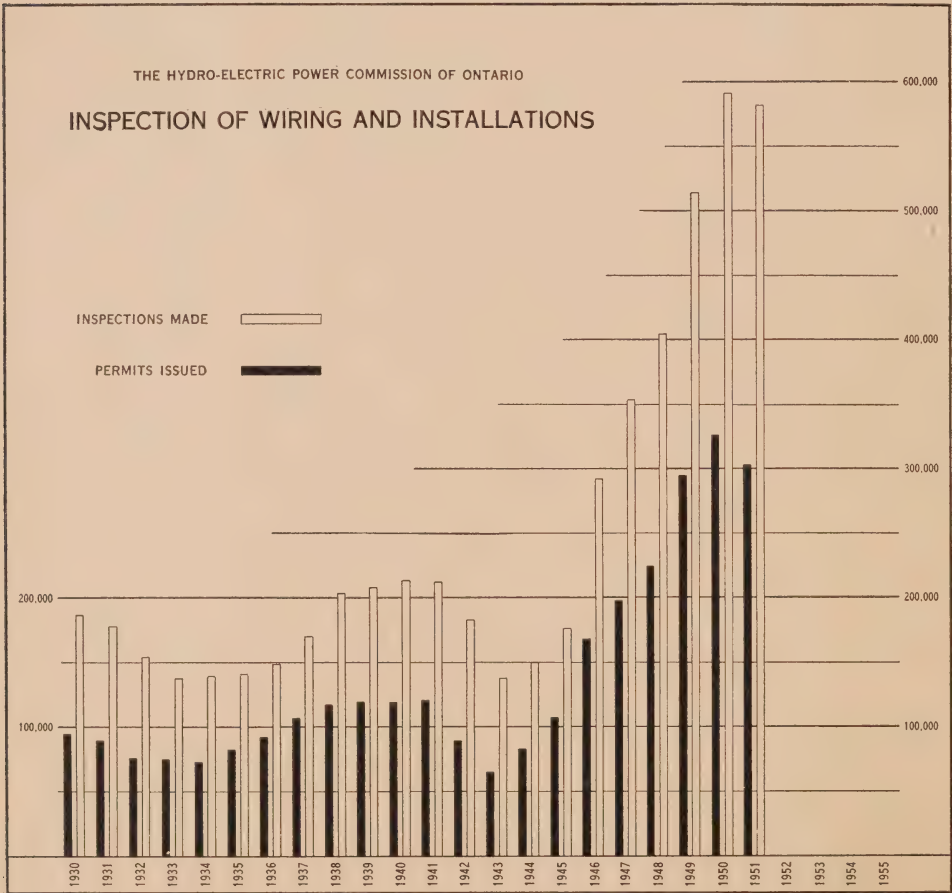
LIGHTING SERVICE

During the year 1951, the Commission prepared lighting plans and specifications for 417 lighting installations. Of this number, 320 were for the purpose of assisting the Ontario Department of Education in providing adequate lighting for schools. The remaining 97 included lighting for offices, public buildings, industrial installations, sports areas, and municipal street lighting.

ELECTRICAL INSPECTION

The year 1951 saw a levelling off in building construction. In the Electrical Inspection Department there was a comparable decrease of 6.49 per cent in the number of permits issued and a decrease of 1.08 per cent in the number of inspections made.

However, there was an increase of 11.4 per cent in the number of special inspections completed by the Sales Control Section on electrical equipment not approved by the Canadian Standards Association.



Electrical accidents reported to the Electrical Inspection Department during 1951 claimed the lives of 19 persons. Eleven came in contact with high-voltage conductors while operating mobile cranes, hoists, or similar machinery. There were sixteen fires directly attributable to electrical causes.

The revised Regulations of The Hydro-Electric Power Commission of Ontario, made under The Power Commission Act, were approved by the Commission December 20, 1951, officially filed December 27, and became law in the Province at that time. The revised regulations comprise, mainly, the Canadian Electrical Code, Part I, 5th Edition, in the form required by the Regulations Act, together with regulations affecting the approval, sale, and use of electrical equipment.

SECTION IV

RURAL ELECTRICAL SERVICE

Thirty Years' Progress—Load Growth and Average Cost—Rate Adjustment—Trend in Seasonal Load—Rural Line Construction

JUNE 1, 1951 was the thirtieth anniversary of the coming into force of The Rural Hydro-Electric Distribution Act. This measure was directed towards the extension to rural Ontario of electrical service with all its benefits both social and economic. It was evident that electricity could provide the farmer with dependable and effective power for the varied functions of the agricultural industry. It could also add immeasurably to the efficiency, comfort, and convenience of rural living. In the past three decades remarkable progress in the electrification of rural Ontario has been achieved by the Commission with the active co-operation of the Provincial Government.

Capital Investment

The Government, recognizing that the initial capital cost of providing electric power might prove excessive for the sparsely settled rural areas, in 1921 undertook to provide through rural grants-in-aid half the capital cost of transmission facilities to make service available. Over the thirty-year period these grants have totalled over \$63 million. The Government's share of the \$20.3 million spent in 1951 on the Commission's rural program was \$10 million. The total capital cost of rural lines at December 31, 1951 was over \$127 million.

Status of Rural Service

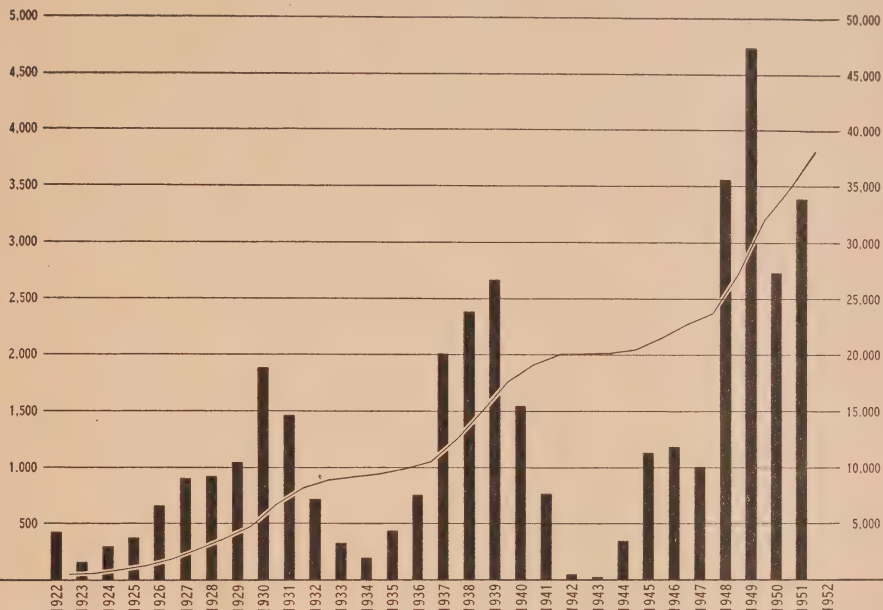
At the end of 1951 the Commission was serving within its amalgamated rural power district a total of 318,606 customers through 103 rural operating areas. Despite the transfer during the year of about 6,000 customers to municipal systems, the number so served under the Commission showed a net increase of 25,795 customers. This total is almost six times the number served in 1931 and nearly two and a half times the number in 1941. These customers are located in 7 towns, 139 villages or police villages, 526 organized and 143 unorganized townships, and 4 improvement districts.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

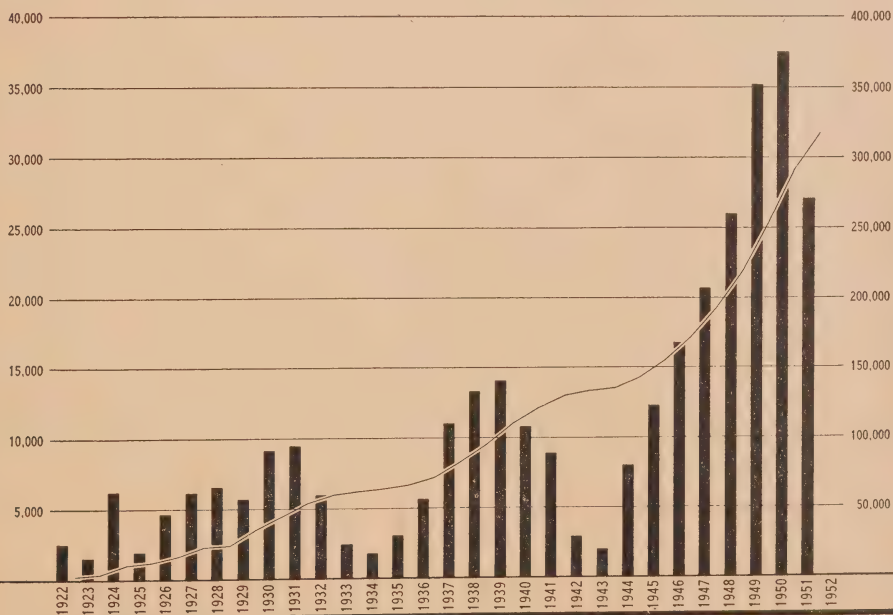
RURAL POWER DISTRICTS

MILES BUILT
IN YEAR

MILES OF PRIMARY LINE CONSTRUCTED

TOTAL MILEAGE
IN USE AT
END OF YEARCUSTOMERS
ADDED
IN YEAR

NUMBER OF CUSTOMERS RECEIVING SERVICE

TOTAL CUSTOMERS
SERVED AT
END OF YEAR

Of the total customers served during 1951, 123,434 are farm service customers. A farm service customer, as defined by the Commission, has contracted for a minimum demand of three kilowatts to be used for the production of food or industrial crops on properties normally exceeding five acres in extent. The total kilowatt-hours consumed by customers within this classification in 1951 was 410.7 million. This is over sixteen times the 25.7 million kilowatt-hours used for farm purposes in 1931 and nearly four times the 107 million used in 1941.

This tremendous increase in energy consumption is attributable partly to the increase in number of customers served, but almost equally to a growth in consumption per customer. In 1931 there were about 21,000 farm service customers. Three times this number were served in 1941; by 1951 the number had grown to over 123,000. The addition of so many new customers has tended in some years to lower the number of kilowatt-hours consumed per customer. So great, however, has been the increase in consumption by the farm service group as a whole that the average cost to the customer per kilowatt-hour has fallen from 4.39 cents in 1931 to 2.51 cents in 1941, and in 1951 it was 1.97 cents per kilowatt-hour.

Other forms of rural service have also shown increases in energy consumption. The total consumption for all types of rural service in 1951 was over 968 million kilowatt-hours. Within the last eight years, since the revision in classification of service in 1944, consumption by hamlet service



ELECTRICITY FOSTERS GROWTH

Left: In flowers for the market, uniformity and the date of flowering are influenced by use of electric light.

Right: Portable sprinklers powered by electricity can be conveniently moved to cover a large acreage.

customers has increased fourfold and reduced the customer's average cost per kilowatt-hour by 14 per cent; commercial energy consumption is seven and a half times what it was in 1944 and the average cost to the customer is reduced by 13 per cent. Summer service alone is higher by 19.89 per cent in average cost per kilowatt-hour. Summer service has not shown the increased consumption per customer that is common to other types of service and the benefits that normally follow increased consumption are therefore not reflected in lower average costs.

Rates for Rural Hydro Service

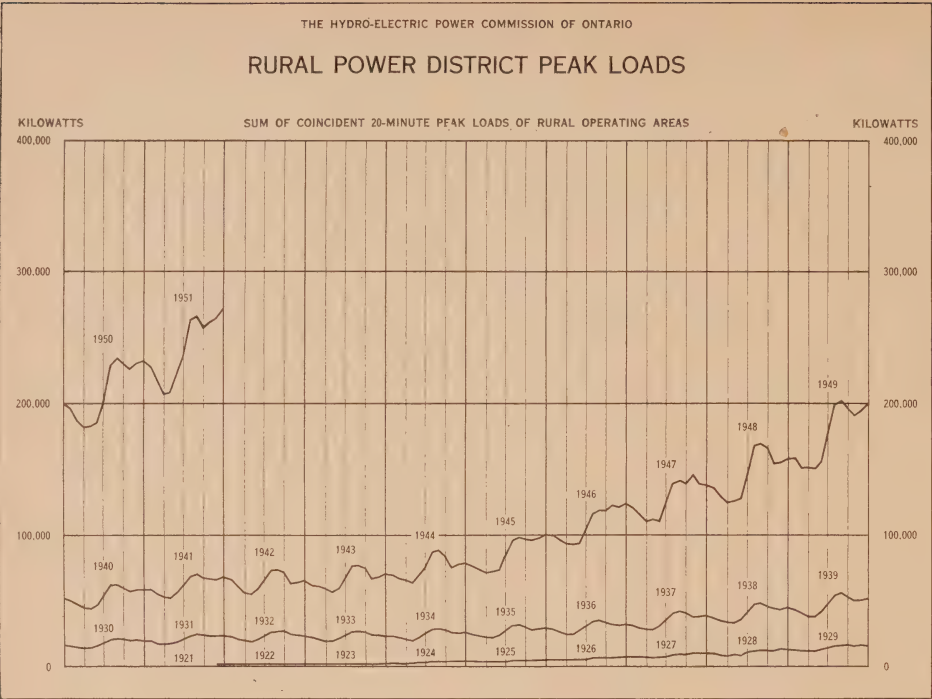
The uniform rate plan upon which the above costs are based was inaugurated on January 1, 1944. The success of the plan was dependent then

RURAL SERVICE SINCE ADOPTION OF PROVINCE-WIDE UNIFORM RATES AND NEW CLASSIFICATION, JANUARY 1, 1944.

Service	Year	Annual revenue	Energy consumption	Number of customers billed	Average revenue per kwh	Average monthly bill	Average monthly consumption
		\$	kwh		cents	\$	kwh
Farm service.	1944	2,396,508.94	113,706,660	59,639	2.11	3.53	167
	1945	2,606,431.15	137,194,727	65,141	1.90	3.48	183
	1946	3,072,921.16	176,460,859	72,285	1.74	3.72	214
	1947	3,430,307.61	206,420,795	78,668	1.66	3.79	228
	1948	3,942,730.96	242,291,332	87,530	1.63	3.95	243
	1949	4,508,978.00	275,946,330	102,051	1.63	3.96	243
	1950	7,441,437.92	403,018,641	114,724	1.85	4.90	266
	1951	8,097,710.92	410,722,321	123,434	1.97	5.67	287
Hamlet service.	1944	1,937,102.28	82,106,734	56,130	2.36	2.95	125
	1945	2,027,283.82	92,056,781	58,867	2.20	2.93	133
	1946	2,345,531.81	118,287,655	66,177	1.98	3.12	158
	1947	2,754,265.69	150,411,043	74,879	1.83	3.24	178
	1948	3,279,149.63	185,225,412	85,598	1.77	3.40	192
	1949	3,552,600.42	200,875,642	94,852	1.77	3.28	186
	1950	5,712,108.72	302,905,040	114,592	1.89	3.90	207
	1951	6,380,808.20	314,271,957	124,091	2.03	4.45	219
Commercial service. . .	1944	341,646.50	15,010,213	8,262	2.28	3.51	154
	1945	381,570.09	18,915,619	8,870	2.02	3.72	184
	1946	468,391.94	25,069,924	10,315	1.87	4.07	218
	1947	572,625.58	33,304,037	11,851	1.72	4.30	250
	1948	706,949.62	41,665,764	13,589	1.70	4.63	273
	1949	1,147,167.71	69,458,813	18,439	1.65	5.97	361
	1950	2,083,696.71	113,039,553	18,749	1.84	8.00	434
	1951	2,284,851.74	115,121,444	20,110	1.98	9.80	494
Summer service.	1944	435,622.43	11,859,662	19,291	3.67	1.93	53
	1945	473,887.53	14,250,142	20,947	3.33	1.96	59
	1946	555,833.10	18,352,748	24,244	3.03	2.05	68
	1947	632,102.22	21,116,561	27,182	2.99	2.04	68
	1948	722,951.54	24,440,522	31,088	2.96	2.07	70
	1949	855,107.11	28,038,463	37,313	3.05	2.08	68
	1950	1,376,606.36	32,307,669	43,735	4.26	2.81	66
	1951	1,616,368.92	36,705,187	49,913	4.40	2.86	65

The above figures include customers billed and service rendered during a twelve-month period ending in the fiscal year. Since in 1950 the fiscal period was adjusted to end at December 31, the figures for 1950 cover 14 months.

Customers taking power and special services are not listed.



and continues now to be dependent upon revenues from increased sale of energy. The maximum use of facilities is essential in order to produce revenue sufficient to meet fixed costs.

In view of increased costs of material and labour it was necessary in 1950 to increase rates to all types of customer and the new rates, effective on May 1, 1950, are to be found in Appendix III of this Report. The growth in the use of power and the revenues obtained from these new rates materially reduced the deficit in 1950 operation. In 1951 the increased cost of power production is again reflected in rising deficits. Recent studies indicate that some increase in rates will be necessary in 1953 if a sound financial position is to be maintained.

LOADS

The sum of the 103 coincident monthly peak loads of the rural operating areas at its maximum is now almost four times what it was in 1941. This maximum in 1951 was 271,354 kilowatts and it is interesting to note that the maximum occurred in December and that it was 4,643 kilowatts greater than the load recorded in August, which was the next highest load in the year. This load supplied to the rural operating area is naturally affected by the seasonal variation in the number of customers taking service. For example, the number of summer cottages being served is at its maximum in the month of August. The table below shows the trend in growth of the load supplied

during each of the months of August and December expressed as an average per customer served.

Peak Load Supplied to Rural Operating Areas

(expressed as an average per customer served)

Year	In August kw	In December kw
1938	0.498	0.537
1939	0.504	0.537
1940	0.514	0.567
1941	0.537	0.601
1942	0.550	0.562
1943	0.572	0.595
1944	0.612	0.628
1945	0.632	0.739
1946	0.686	0.830
1947	0.728	0.836
1948	0.770	0.831
1949	0.792	0.918
1950	0.802	0.933
1951	0.860	1.010



ELECTRICITY IN POULTRY FARMING

Left: Infra-red heat lamps have a wide application in poultry brooding.

Right: Electric poultry-feeders automatically distribute the feed economically, and save labour.

LINE CONSTRUCTION

During the year Commission approval was given for the extension of rural lines in accordance with the table given below. Total mileage constructed was increased by 10 per cent and at the end of the year was approximately 38,200 miles. Including the work incomplete at the end of 1951, requirements for 1952 will involve the erection of approximately 2,500 miles of line. A summary of rural line construction for the year is given in this section. Other statistical tables summarizing the whole rural development program may be found in Appendix III on pages 331-342.



RURAL LINE CONSTRUCTION

Service is extended to new customers in rural Ontario.

**RURAL LINE EXTENSIONS APPROVED BY THE COMMISSION
DURING THE YEAR 1951**

System by regions	Miles of primary line	Net increase in number of customers			Capital approved for extensions	
		Farm	Non-farm	Total	Total	Provincial grant-in-aid
	No.	No.	No.	No.	\$	\$
SOUTHERN ONTARIO						
Western	212.90	1,442	3,689	5,131	2,728,978	1,364,489
West Central	272.46	1,300	2,828	4,128	2,903,680	1,451,840
Niagara	33.42	207	1,098	1,305	493,934	246,967
Toronto	52.19	386	1,675	2,061	996,846	498,423
Georgian Bay	941.84	2,521	4,817	7,338	4,919,326	2,459,663
East Central	665.21	1,574	3,892	5,466	3,683,594	1,841,797
Eastern	703.04	1,203	3,098	4,301	3,368,316	1,684,158
Totals	2,881.06	8,633	21,097	29,730	19,094,674	9,547,337
THUNDER BAY	121.95	184	471	655	551,628	275,814
NORTHERN ONTARIO PROPERTIES						
Northeastern	703.80	1,336	3,259	4,595	4,159,818	2,079,909
Northwestern	167.59	345	637	982	716,434	358,217
Totals	871.39	1,681	3,896	5,577	4,876,252	2,438,126
Totals—All systems	3,874.40	10,498	25,464	35,962	24,522,554	12,261,277

**SUMMARY—MILES OF LINE AND NUMBER OF CUSTOMERS
IN RURAL OPERATING AREAS AT DECEMBER 31, 1951**

System by regions	Miles of line	Customers receiving service						Not completed in 1951*	
		Farm	Hamlet	Commercial	Summer	Power	Total	Miles	Customers
SOUTHERN ONTARIO									
Western	7,061.92	29,274	26,815	3,673	6,147	249	66,158	112.99	220
West Central	5,945.39	23,181	20,907	2,786	2,634	227	49,735	103.73	266
Niagara	1,257.25	5,960	10,936	981	1,830	120	19,827	39.43	49
Toronto	1,837.41	6,488	12,589	1,245	4,109	117	24,548	34.23	113
Georgian Bay	7,713.00	20,737	12,983	3,090	20,599	73	57,482	215.31	786
East Central	5,619.08	15,436	15,784	2,843	8,341	94	42,498	179.22	687
Eastern	5,050.19	15,044	10,953	2,614	3,676	103	32,390	94.73	566
Totals	34,484.24	116,120	110,967	17,232	47,336	983	292,638	779.64	2,687
THUNDER BAY	718.77	1,661	1,546	255	405	6	3,873	43.48	329
NORTHERN ONTARIO PROPERTIES									
Northeastern	2,439.70	4,669	11,402	1,555	1,993	62	19,681	258.07	994
Northwestern	554.87	984	968	276	179	7	2,414	35.51	241
Totals	2,994.57	5,653	12,370	1,831	2,172	69	22,095	293.58	1,235
Totals—All systems	38,197.58	123,434	124,883	19,318	49,913	1,058	318,606	1,116.70	4,251

* Miles of line and total customers, not included in preceding columns.

SECTION V

ENGINEERING AND CONSTRUCTION

Developments on the Ottawa and Niagara Rivers—Power Development Program—Hydraulic and Fuel-electric Generating Stations—Transformer Stations and Transmission Lines

THE upward trend in power requirements, discussed in Section I, has continued to tax the capacity of the Commission's Systems. The defence program, which has been a contributing factor to the increased demand, has also had the effect of making the Commission's requirements of material and equipment for its capital undertakings more difficult to obtain. Nevertheless, good progress has been maintained in the construction program, and during 1951 nine generating units at four major generating stations were brought into service.

Included in these nine units was the eighth and final unit at Des Joachims Generating Station which was placed in service on February 22, 1951, bringing the December dependable peak capacity of this station to 380,000 kilowatts. Also included are the last six of the eight units at Chenaux where the final unit was placed in service on September 22, and one unit at each of Richard L. Hearn and J. Clark Keith Generating Stations. Detailed descriptions of these three undertakings are given in the section that follows.

Two other major developments are the Otto Holden Generating Station on the upper Ottawa River and the Sir Adam Beck-Niagara Generating Station No. 2, the largest single power development that the Commission has ever undertaken. The first will virtually complete the Commission's development program on the Ottawa. The emphasis will now shift to the Niagara River, where at Sir Adam Beck-Niagara Generating Station No. 2 plans call for the eventual installation of twelve units, each of 75,000 kilowatts. Seven of these have been authorized for inclusion in the first stage of construction and are expected to be placed in service in 1954 and 1955.

When the Commission began its development program in 1945 it had just one generating station in operation on the Ottawa River. This was Chats Falls Generating Station, owned jointly by the Commission and the Ottawa Valley Power Company. During six and a half years great changes have been made. About 22 miles up the river from Chats Falls now stands



SIR ADAM BECK-NIAGARA GENERATING STATION No. 2—Power-house site, from across the Niagara River, November, 1951. At the right is Sir Adam Beck-Niagara Generating Station No. 1.

Chenau Generating Station, its eight units providing 120,000 kilowatts of dependable peak capacity. Some 65 air miles further up the river is the giant Des Joachims Generating Station which has been in full operation since early in 1951 with a dependable peak capacity of 380,000 kilowatts. Another 50 miles up the valley is Otto Holden Generating Station. Its eight units are scheduled to be brought into service progressively after January 1952. Its ultimate dependable peak capacity will be 204,000 kilowatts.

In December 1945 the Commission's dependable peak capacity on the Ottawa River was 85,000 kilowatts. By December 1951 that capacity had been increased to 585,000 kilowatts. When Otto Holden Generating Station is fully in service it will amount to 789,000 kilowatts and will exceed the dependable peak capacity of the Commission's present generating stations on the Niagara River and the Welland Canal. The Ottawa's supremacy will be short-lived, however, because it will end as soon as the first two units of Sir Adam Beck-Niagara Generating Station No. 2 are placed in service. Although the potential of the upper Ottawa has been harnessed in a remarkably short time, the output of each generating unit has been eagerly anticipated. The past two years have been notable for their abundance of water and the new Ottawa River generating stations have produced energy steadily hour after hour. The rapidity with which this output has been used emphasizes the remarkable growth in Ontario's demand for more and more power, and the urgent necessity of developing power from the St. Lawrence.

For convenient reference the table below summarizes the Commission's power development program, 1945 to 1955, as authorized at December 31, 1951. Revisions of the program schedule, conforming with system requirements, have been made so as to achieve a maximum of efficiency.

**Summary of Ontario Hydro's Power Development Program—1945-1955
As at December 31, 1951**

System and Development	In service	Dependable peak capacity kilowatts
SOUTHERN ONTARIO SYSTEM		
DeCew Falls (Extension)—Niagara Region	Sept. 1947	57,000
Stewartville—Madawaska River	Sept. 1948	63,000
Additional power purchase contract—Polymer Corporation	Nov. 1948	22,500
Emergency fuel-electric units	Jan. 1949—Apr. 1950	63,000*
Des Joachims—Ottawa River	July 1950—Feb. 1951	380,000
Chenau—Ottawa River	Nov. 1950—Sept. 1951	120,000
Richard L. Hearn—Toronto	Oct. 1951—	88,000
J. Clark Keith—Windsor	Jan. '52—Feb. '53—	288,000
	Nov. 1951—	66,000
Otto Holden—Ottawa River	Jan. '52—Nov. '53—	198,000
Sir Adam Beck—Niagara No. 2—Niagara River	Jan. 1952—Nov. 1952	204,000
	1954—1955	525,000**
THUNDER BAY SYSTEM		
Aguasabon—Aguasabon River	Oct. 1948	40,000
Pine Portage—Nipigon River	July 1950	60,000
NORTHERN ONTARIO PROPERTIES		
Ear Falls (Extension)—English River	June 1948	6,000
George W. Rayner—Mississagi River	July 1950	42,000

*Including 10,000 kilowatts not available October—December.

†Installed capacity of generating station after conversion of first and third units to 60-cycle operation, 400,000 kilowatts.

**Installed capacity.

The following presents a summary of the Commission's capital expenditure on the power development program, classified under five main headings.

**Financial Summary of Ontario Hydro's Capital Development Program
November 1, 1945 to December 31, 1951**

For Power Generation:		
Expenditures on projects in service	\$226,879,829	
Expenditures on projects under construction	121,289,413	
Unexpended portion of approvals	191,325,642	
		\$539,494,884
For Transmission Lines:		
Expenditures on lines in service	\$85,657,741	
Expenditures on lines under construction	14,172,505	
Unexpended portion of approvals	6,223,913	
		106,054,159
For Transformation and Frequency-Changer Station Facilities:		
Expenditures on facilities in service	\$86,345,128	
Expenditures on facilities under construction	18,433,385	
Unexpended portion of approvals	24,256,328	
		129,034,841
For Administration and Service Buildings and Equipment:		
Expenditures on facilities in service	\$11,864,349	
Expenditures on facilities under construction	902,345	
Unexpended portion of approvals	3,014,655	
		15,781,349
For Rural Construction:		
Expenditures on lines and facilities in service	\$78,144,042	
Expenditures on lines and facilities under construction	7,366,219	
Unexpended portion of approvals	4,952,500	
1952 Program	14,047,500	
		104,510,261
Other Approved Expenditures		78,334,998
		<u>\$973,210,492</u>

In addition to the work on construction, topographic and geological surveys were carried out at a number of prospective development sites in northern Ontario, and study continued on the development of the St. Lawrence River for power.

SOUTHERN ONTARIO SYSTEM

Progress on Power Developments

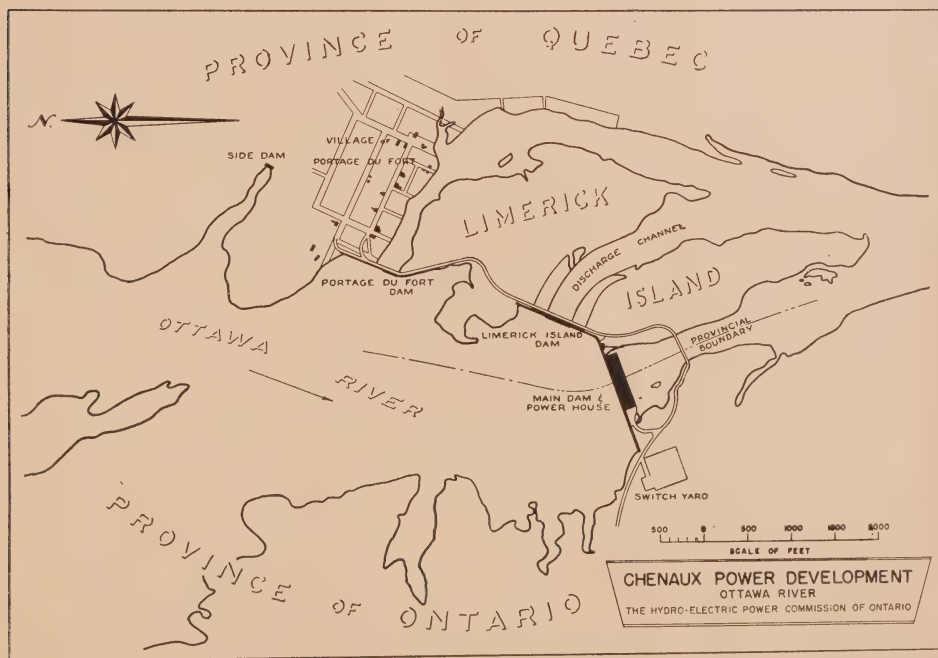
Detailed descriptions are given of the Commission's major hydraulic developments that were fully in service for the first time in 1951, and of the two large fuel-electric stations that were initially operated during the months of November and December.

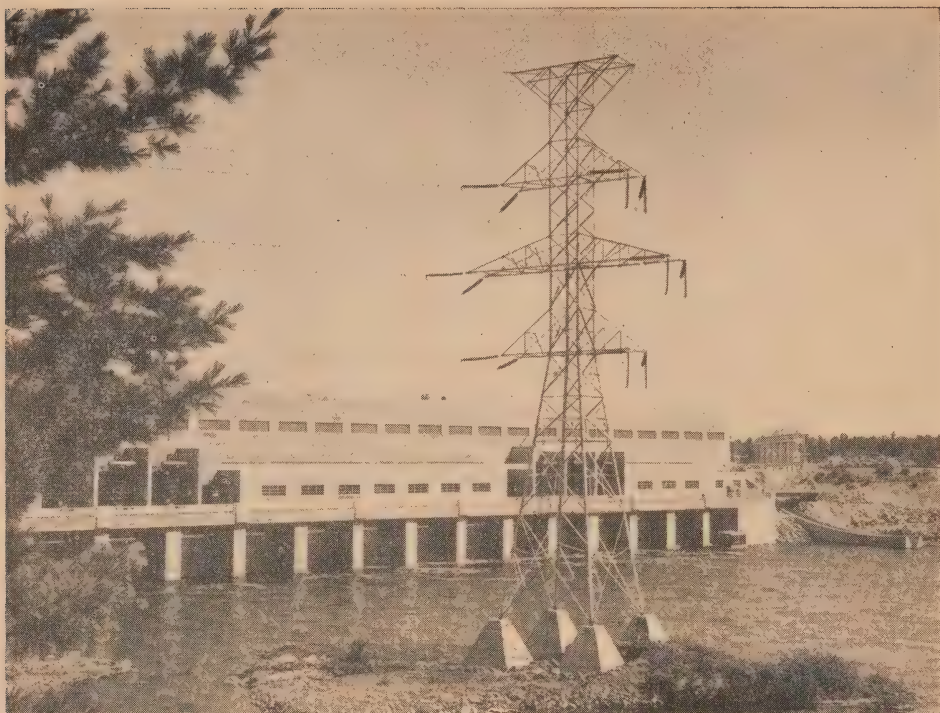
CHENAUX GENERATING STATION—OTTAWA RIVER

The Chenaux Generating Station development takes advantage of the natural fall in the Ottawa River from the outlet of the Bryson channel to Chats Lake. Construction began in June 1948 and was complete except for minor details by December 1951. The eight generating units were successively placed in service between November 20, 1950 and September 21, 1951.

H. G. Acres and Company, Consulting Engineers, were retained for the design of the development, and Pentagon Construction Company were the general contractors. The Commission's staff gave general supervision to the work which at December 31, 1951 had cost a total of \$28,487,808, including generation, transformation, and high-voltage switching at the site.

The accompanying plan illustrates the general arrangement of the project which comprises a main dam and power-house, the Limerick Island Dam and flood-discharge channel, the Portage du Fort Dam, and an auxiliary





CHENAUX GENERATING STATION—Down-stream view of the power-house

dam. The work of construction included the clearing of 2,100 acres of land and the creation of a lake 7 miles long and 1 mile wide, with an area of 4,600 acres.

Construction Procedure

The first work undertaken was the excavation of the Limerick Island Dam foundations and the discharge channel through the island under the protection of cofferdams. When concrete was placed in the Limerick Island Dam the spillways for the twenty-two sluices were kept temporarily at a low elevation. Then the main or interprovincial channel was closed with cofferdams, and the river was diverted through the discharge and Portage du Fort channels. After the necessary excavation in the power-house and tail-race area was complete, construction of the main dam, head-works, and power-house proceeded. At the same time the Portage du Fort Dam was being built.

By the summer of 1950 work on the head-works and power-house sub-structure had advanced sufficiently to permit bringing the twenty-two Limerick Island sluices up to their final elevations. This operation, made easier by the low summer flows, was completed by the final closure on the six main sluices. In these, rollways were poured after each sluice had been closed by steel emergency stoplogs placed in the checks of the piers.

Main Dam

The main dam is a concrete gravity-type bulkhead structure. The head-works, the power-house, and the two sections that act as wing dams to these have a total length of 1,400 feet. The west section, extending from

the Ontario shore to the power-house, is 600 feet long and has a maximum height of 60 feet. Its up-stream face is vertical; the down-stream face is vertical for 16 feet and then slopes on an 8 to 12 batter. The deck of this section serves as an access road to the head-works. Through the upper part of the dam a cable tunnel connects the power-house with the switchyard. The east section of the dam extends from the power-house to Limerick Island, where it forms a continuous structure with the Limerick Island Dam.

Head-Works

The head-works, 500 feet in length, consists of eight separate intakes, each of which is divided into three passages. The head-works is built integrally with the power-house, and water from the head-pond passes through the intake directly into the concrete scroll-case of the unit. Each passage is protected against debris by trash-racks, and the flow of water can be shut off by means of steel head-gates and emergency steel stoplogs.

The hoists for the head-gates are located in the head-gate gallery. A travelling gantry-crane on the head-works deck, equipped with 25-ton and 4-ton lifting hooks, is used to service this equipment.

Log-Chute

The log-chute head-block is located in the main dam east of the power-house. The sill is 10 feet below regulated head-pond level with a sluice-way opening 20 feet wide, and flow of the water into the concrete log-chute is controlled by a Taintor-type gate. A set of wooden stoplogs is available for closure in winter and under emergency conditions. The transition section down-stream from the head-block directs the flow into the V-shaped trough of the steel-plate log-chute which discharges into the tail-race. The log-chute, supported on concrete cradles, is 200 feet long, 9 feet wide, and varies from 7 to 10 feet in height.

Power-House Substructure

The power-house is located immediately down-stream from the head-works. For each of the generating units the concrete volute scroll-case forms a continuation of the intake structure. The entrance to the turbine wicket-gates is formed by truncated conical sections protruding from the floor and ceiling. This type of construction provides an even flow of water to the propeller-type turbine runners. After passing through the turbine, the water flows through elbow-type concrete draft-tubes and discharges into the tail-race. Each draft-tube can be dewatered by lowering steel stoplogs between the tail-race piers and pumping the water out through drain pipes connected to deep-well sump-pumps.

A 20-ton capacity travelling gantry-crane on the tail-race deck is used to place stoplogs in position, move the transfer truck carrying the 70-ton transformers, and pull the transformers into position.

Extending throughout the substructure immediately above the scroll-cases is the turbine floor. On it are located the sump-tanks for the governor servo-motors; Amplidyne and low-voltage station equipment; and oil, water, and air controls. On the down-stream side of the substructure are three galleries to carry electrical cables and equipment; and service mains for

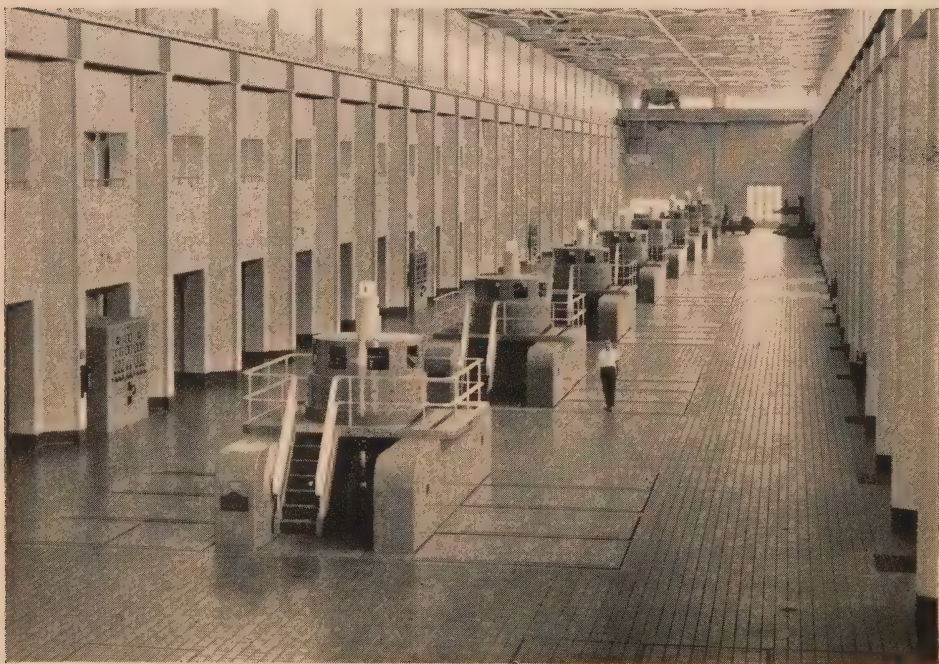
water, oil, and air. On the same side are manholes giving access to the draft-tubes.

At the west end of the structure space is provided for electrical equipment, stores, workshops, water-supply pumps, oil storage, and oil filters. At the east end is the repair- and welding-shop.

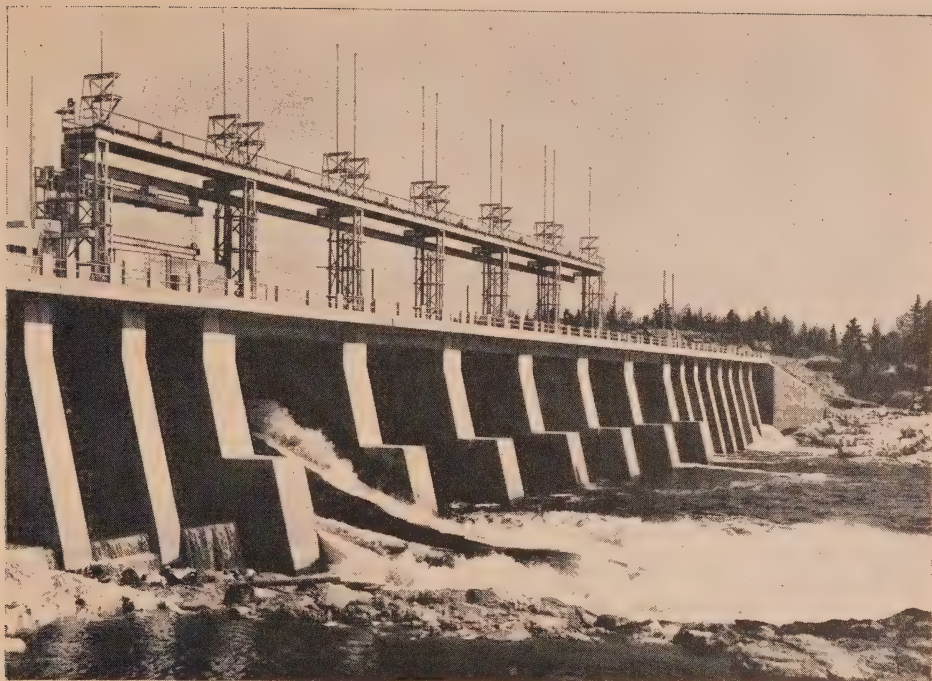
Generating Station Equipment

Eight vertical-shaft generating units, each comprising a fixed-blade propeller-type turbine directly connected to a conventional-type generator, operate at a speed of 94.7 rpm. The turbines and governors were furnished by Dominion Engineering Works Limited and the generators by Canadian General Electric Company Limited. Each turbine has a rated capacity of 21,000 brake horsepower at 40-foot head. The governors are of the twin-cabinet type, situated up-stream, and centrally placed between each pair of units. The governor pressure-system includes pressure-tanks and sump-tanks which are interconnected in pairs to form twin systems. Operation of the pumps is controlled so that one pump supplies both pressure-tanks at normal pressure, while the other functions only when pressure falls to a predetermined amount below normal.

The generators are totally enclosed, 17,000-kva, 0.9 power factor, 3-phase, 60-cycle, 13.8-kv machines. The top of the housing is set flush with the generator-room floor, the upper bracket and main exciter only being



CHENAUX GENERATING STATION—The generator-room



CHENAUX GENERATING STATION—Limerick Island Dam showing six main sluices

above the floor. The cooling-air is circulated by fans and cooled in turn by water circulated through eight cooling-coils. Two of these are mounted at each corner of the square housing.

The normal control equipment has been augmented to provide for automatic starting and stopping of the unit from the control-room. This additional equipment effects automatic speed-matching and synchronizing.

A unique feature of this development is the use, for the first time in Canada, of Amplidyne equipment for voltage regulation of large-capacity hydraulic generators.

The generating station has two electrically-operated cranes, each having a capacity of 100 tons on the main hook, and 25 tons on an auxiliary hook. An equalizer-beam provides for the use of both cranes in the handling of very large loads.

Power-House Superstructure

The power-house superstructure dominates the main dam. In its design aesthetic values have been fully developed to take the maximum advantage of this fact. The main building is of structural steel and reinforced concrete, and forms the erection bay and generator-room. The latter is 640 feet long, 58 feet wide, and 50 feet high.

At the west end are wings for the air-conditioned office and control sections. These, together with the main building, form the main entrance from the parking area and from the approach road. At the east end, the generator hall is extended to accommodate a machine-shop which can be reached by an approach road and bridge over the log-chute. This machine-shop will service all generating stations in the district.

The whole exterior, of sand-blasted horizontal panels, presents a pleasing appearance, which at night is enhanced by flood-lighting.

Limerick Island Dam

Limerick Island Dam, 1,100 feet in length, forms the central portion of the complete dam structure. It extends from the main dam to the east side of the discharge channel on Limerick Island and has a maximum height of 60 feet.

Six main sluices form the centre section of the dam, and on each side are eight subsidiary stoplog sluices. Each of the main sluices is 40 feet wide, with sills 30 feet below regulated water-level. They are controlled by steel sluice-gates of the fixed roller-type, operated by power-driven screw-stem hoists supported by an overhead steel bridge and towers. Each of the sixteen subsidiary sluices is 16 feet wide with sills 23 feet below regulated water-level. The stoplogs are handled by two motor-operated spud-winches.

A discharge channel 600 feet wide and 3,000 feet long carries the water from the sluices into the lower reaches of the river. A roadway slab across the dam replaces the former road.

Portage du Fort Dam

Portage du Fort Dam extends from Limerick Island to the Quebec mainland. It is curved at the Limerick Island shore and is 1,400 feet long, with a maximum height of 70 feet at the sluices. It consists of a concrete core-wall and earth fill and gravity section at the west end, eight stoplog sluices at the centre, and a gravity section at the east end.

Eight sluices control the flow of water for the Quebec channel. They are 16 feet wide with sills 23 feet below regulated water-level. The stoplogs are handled by a motor-operated spud-winch.

Here also a roadway slab across the dam replaces the former road and bridge.

Auxiliary Dam

The auxiliary dam is located on the Quebec mainland about 2,000 feet up-stream from the Portage du Fort Dam. It is a gravity bulkhead section 100 feet long and 20 feet high, and serves to close off a gap in the river valley.

Power into System

The 13.8-kv power from each generator is conducted through 2,000-ampere magna-blast circuit-breakers in a metal-clad structure to the two main transformer banks. Each of these consists of three 23,000-kva, single-phase, water-cooled transformers connected delta-star to step up to 230 kv

with the high-voltage neutral solidly grounded. The transformers in each bank of three have two low-voltage windings each capable of receiving the output of two generators. Thus two main transformer banks on the tail-race deck serve eight generating units.

The switchyard is located on the Ontario mainland west of the powerhouse. The area contains two 230-kv, 800-ampere, pneumatically-operated, oil circuit-breakers with a rupturing capacity of 5,000,000 kva. Each breaker is equipped with its own air-compressor and storage tank, and is arranged for single-pole and three-pole tripping and reclosure. The 230-kv ring-bus is based on the arrangement of one and one-half breakers per element. From this bus, one power circuit on steel towers leads westerly to Ross L. Dobbin Transformer Station at Peterborough. Provision has been made for future switching and power circuits. Two buildings provide accommodation for the line-relaying switchboards, lighting transformers, oil filters, and carrier-current cabinets. Underground ducts and piping carry the control cables and insulating oil from the buildings and oil-storage tanks to the equipment.

Operators' Colony

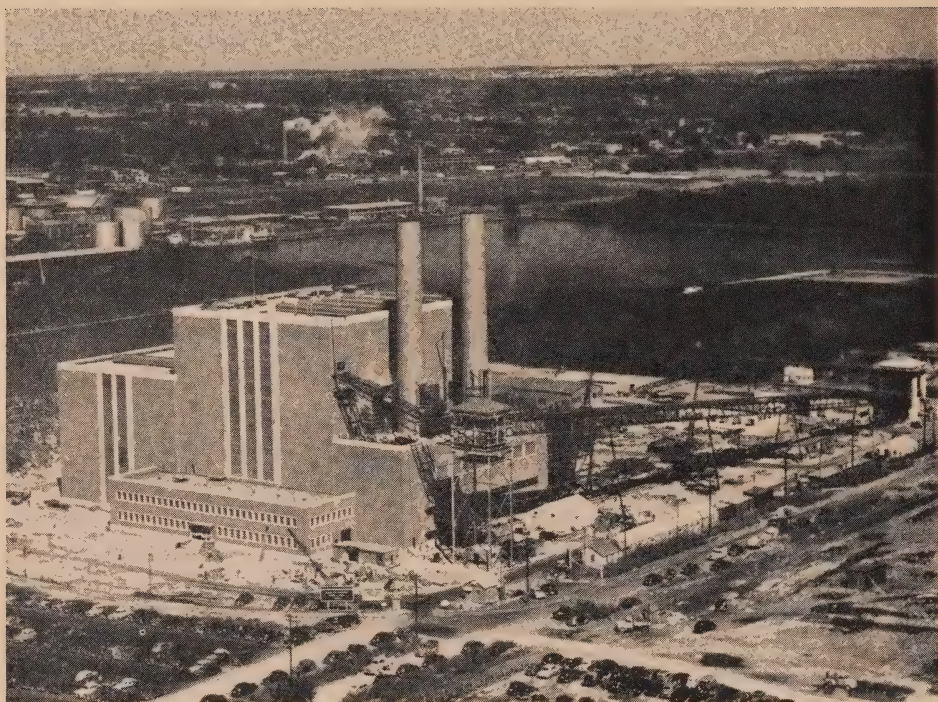
The operators' colony, which overlooks the Ottawa River, is located on high ground half a mile west of the powerhouse. At present there are ten permanent and twenty-two temporary houses, two staff houses, and a recreation hall. Garage facilities, water supply for domestic use, and fire protection are provided. The permanent houses are located in an area that has space for twenty-five additional houses; the temporary houses are renovated construction houses.

RICHARD L. HEARN GENERATING STATION (STEAM)—TORONTO

This large fuel-electric generating station located on Toronto's waterfront will, as now authorized, comprise four generating units. These will be completed in two stages. The first will bring into service one 25-cycle unit of 88,000 kilowatts for later conversion to 100,000 kilowatts at 60 cycles, and one 100,000-kilowatt unit operating at 60 cycles. Following completion of this stage early in 1952, the third and fourth units, with similar capacity, will be placed in service during 1952 and early 1953. The original estimated cost of this four-unit station was \$66,750,000. More recent cost studies have resulted in a revised estimated cost of approximately \$60,000,000, including 13.8/115-kv high-voltage transformation and switching at the site.

The station was formally opened on October 26, 1951 by The Hon. Leslie M. Frost, Prime Minister of Ontario, assisted by Richard L. Hearn, General Manager and Chief Engineer of The Hydro-Electric Power Commission of Ontario, after whom the station was named. On that occasion the first unit was placed in operation at 25 cycles. Unit No. 2 will be placed in service in 1952.

During 1951 good progress was made on the extension for the third and fourth units, including work on piles, foundations, structural steel erection, and brickwork. Stone and Webster Engineering Corporation, who were responsible for the engineering for the undertaking, are also supervising the construction of the buildings and the installation of the equipment.



RICHARD L. HEARN GENERATING STATION, TORONTO—Aerial view, September, 1951

Site

The Richard L. Hearn Generating Station is located on a 48-acre site on Toronto's waterfront between the harbour ship channel on the north, and Unwin Avenue on the south, and adjoining the circulating channel on the east. Adequate cooling-water will be drawn from the ship channel and discharged into the circulating channel.

Structures

The structures are supported on 20-inch compressed-concrete piles. They have structural steel frames with brick walls, and include the following: a main power building with control bay; an intake building enclosing the well, screens, and pumps; the coal-crusher house; and the service building for the coal-handling equipment.

The main power building houses the steam generators, turbine generators, and associated equipment; an annex to this building contains the offices, laboratory, locker-rooms, electrical shop, and machine-shop.

Equipment Arrangement

The modern unit system is used; each steam generator is connected directly to one turbine generator with its condenser and unit feed-water heating system, and the electric generator is solidly connected to its own transformer bank.

Steam Generators

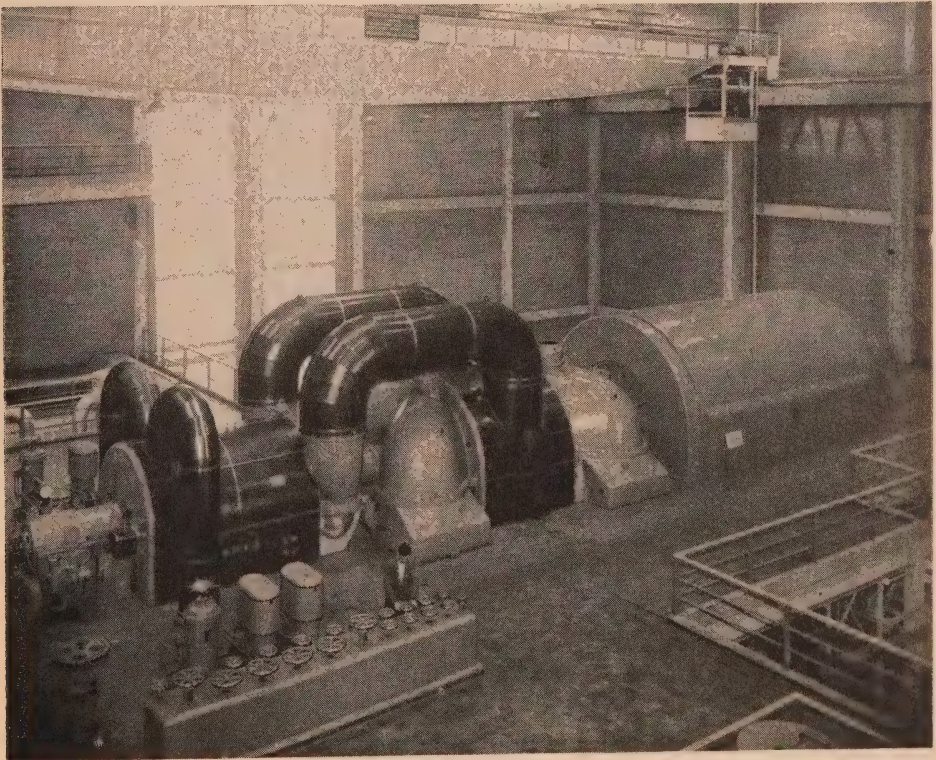
The steam generators are of the radiant water-wall type, complete with economizers and superheaters. They will produce 850,000 pounds of steam per hour at 875 pounds per square inch gauge pressure (psig) at a temperature of 900 degrees Fahrenheit at the superheater outlet, with feed-water at 365 degrees Fahrenheit and one per cent blow-down. Each steam generator is equipped with sixteen burners, which are fed from four pulverizers.

Air for combustion for each steam generator is supplied by two forced-draft fans. Outside air is drawn in and forced through two regenerative air-preheaters which recover heat from flue-gases leaving the economizer section of the steam generator. Part of the air thus preheated is forced through the pulverizer and carries powdered coal to the burners.

The flue-gases, after giving up heat in the air-preheater, are drawn through mechanical collectors and electrostatic precipitators by two induced-draft fans and are then discharged into brick chimneys. The performance of this equipment guarantees the removal of over 95 per cent of the solids in the gases.

Steam Turbines

The turbines take steam at the throttle at 850 pounds psig at a temperature of 900 degrees Fahrenheit, and exhaust at 1.5-inch mercury absolute.



RICHARD L. HEARN GENERATING STATION—Steam turbine generator No. 1

They are two-cylinder, tandem-compound reaction type. The low-pressure cylinder has two exhausts, both of which are connected to one condenser. The convertible unit turbines will turn at 1,500 rpm for 25-cycle and at 1,800 rpm for 60-cycle operation. The 60-cycle turbines will turn at 1,800 rpm.

Main Condensers

The condensers are of the two-pass type, each containing 60,000 square feet of cooling-surface made up of ten thousand 7/8-inch OD Admiralty metal tubes, 26 feet long, through which the cooling-water is pumped.

Cooling-Water

One screen-house for the screening and chlorination of the water is provided for two main condensers. The water enters the screen-house well through electrically-driven and automatically-washed travelling screens.

After treatment with a minimum amount of chlorine to prevent the formation of slime in the condenser tubes, the water is forced through two concrete pressure-pipes, 54 inches in diameter, to serve the main condensers of two units. Booster pumps draw from these lines for other auxiliary cooling and services. Two main condensers discharge into a steel "Y" section, which connects to a 78-inch concrete pipe. This pipe carries the water to the outfall structure at the circulating channel, where it returns to the lake.

Feed-Water Heating System

Each steam turbine is provided with five extraction connections, four of which are used for the present feed-water heating system.

Treated water is evaporated to make up the unavoidable losses of steam and condensate due to blow-down, soot-blowing, etc.

Electric Generators

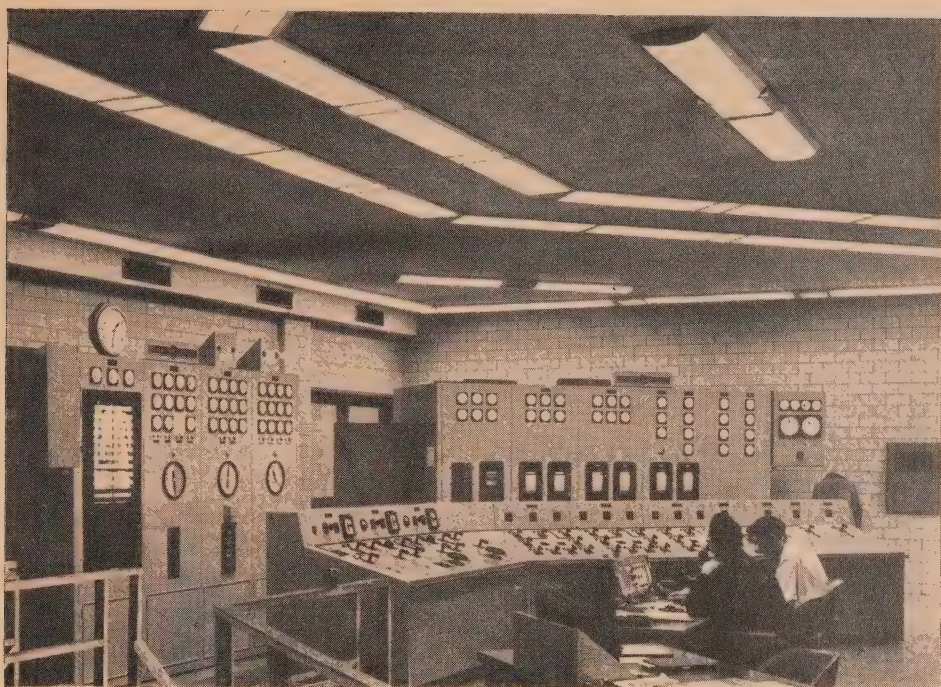
Each convertible unit generator is provided with a two-pole and a four-pole rotor. The two-pole rotor, for operation at 1,500 rpm and 25-cycle frequency, will produce 88,000 kilowatts at 1.0 power factor, 3-phase, 11,200 volts. The four-pole rotor, for operation at 1,800 rpm and 60-cycle frequency, will produce 100,000 kilowatts at 1.0 power factor, 3-phase, 13,800 volts.

Hydrogen cooling will be provided under a pressure of a half pound psig for normal capacity, and 15 pounds psig for overload.

The main and pilot exciters for both the convertible and 60-cycle generators are direct-connected to the generator. Each generator is solidly connected by an isolated phase-bus to its main transformer or transformers. Two main transformers are required for each convertible generator at 25 cycles and one for each 60-cycle machine. These are located in cells adjoining the wall of the main station building.

Control-Room

The control-room, on the same level as the main turbine units, is sound-proofed, air-conditioned, and illuminated by indirect fluorescent lighting. Two bay windows in the north wall overlook the switchyard and the main transformers.



RICHARD L. HEARN GENERATING STATION—Control-room completed for three units

A semi-circular instrument board 7 feet 6 inches high, with a semi-circular bench-board in front, directly faces the operator's desk. The instrument board includes the machine panels with all the necessary indicating and recording instruments, and the station service instruments. The bench-board is arranged so that all leads enter from below. On the bench-board top the 115-kv circuit and the bus are represented by a single-line diagram using coloured plastic materials; major pieces of equipment at the station are designated by nameplates.

From the control-room all high-voltage switchgear is remotely controlled, and the main units are synchronized and loaded as required. On the floor immediately below the control-room is the enclosed relay-board, arranged for leads to enter from both above and below.

Auxiliaries

All auxiliaries are driven by 60-cycle motors fed from a unit transformer, or in an emergency, from an outside source.

Coal Handling

Self-unloading boats in the ship channel unload directly to the coal storage pile. Bulldozers and carry-alls distribute the coal in layers to a height of 35 feet or more.

Coal for use in the station is moved by the same mobile equipment to a reclaim hopper from which it is fed to a belt conveying system. This

passes the coal through preliminary crushers and transports it to a point over the main coal bunkers where it is distributed by a travelling tripper.

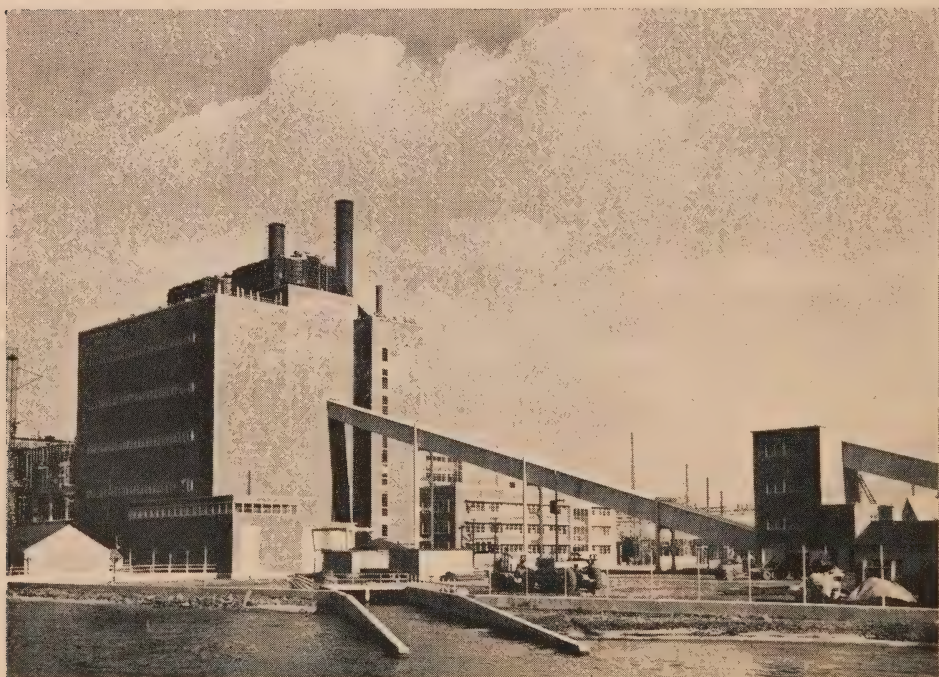
Ash Disposal

Fly ash from the mechanical collectors and electrostatic precipitators is handled pneumatically to a point where it is made into a slurry with the "hopper" and "bottom" ash and pumped to the disposal area. There the ash settles and the water is decanted to the circulating channel.

J. CLARK KEITH GENERATING STATION (STEAM)—WINDSOR

The Commission's second large fuel-electric generating station, named after the General Manager of the Windsor Utilities Commission, will have an installed capacity as authorized at present of 264,000 kilowatts in four units. The first was placed in operation on the occasion of the official opening by the Chairman of the Commission, Mr. Robert H. Saunders, and Mr. Keith on November 16. The second will be placed in service during 1952. The estimated cost of the four-unit station is \$48,105,000, including 13.8/115/230-kv high-voltage transformation and switching at the site.

During the year good progress was made on the building extension for the third and fourth units. Work on steel piling, concrete tunnels for circulating water, foundations, and reinforced-concrete building structure was included.



J. CLARK KEITH GENERATING STATION, WINDSOR—View from the Detroit river, December, 1951

The arrangement with H. G. Acres and Company for consulting engineering services in effect for Units No. 1 and 2 was extended for Units No. 3 and 4, and they are continuing to supervise the construction of the buildings and the installation of the equipment.

Site

The station is located on a 120-acre site on the Detroit River on the southern limits of the city of Windsor. There is an abundant supply of cooling-water, and adequate area for the storage of coal and disposal of fly ash.

Structures

The main structures are of reinforced-concrete frame with walls of brick supported on steel 12-inch H-piling driven to rock. They include a main power-station building housing the steam generators, turbine generators, and administration offices; a control building, two service buildings, a screen-house, the crusher-house, and the coal dock.

Equipment Arrangement

Following the modern unit arrangement, each unit is complete in itself. Each steam generator is connected directly to one turbine generator with condenser and unit feed-water heating system. The electric generator is solidly tied to its own transformer bank.

Steam Generators

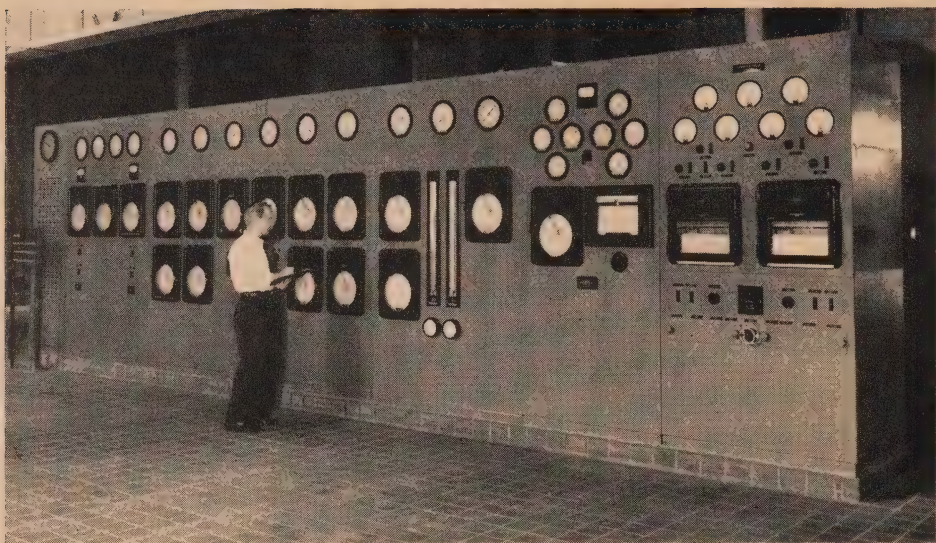
The steam generators are of the radiant water-wall type, complete with economizers and superheaters. They will produce 650,000 pounds of steam per hour at 875 pounds psig at a temperature of 900 degrees Fahrenheit at the superheater outlet, with feed-water at 418 degrees Fahrenheit and one per cent blow-down. Each steam generator is equipped with twelve coal burners into which pulverized coal is fed from four pulverizers.

Air for combustion is supplied by two forced-draft fans through two regenerative air-preheaters. Heat of the flue-gases leaving the economizer section of the steam generator is transferred to the air. Part of the preheated air, when forced through the pulverizer, carries powdered coal to the burners.

The flue-gases, after giving up heat to the air-preheaters, are drawn by two induced-draft fans through mechanical collectors and electrostatic precipitators located on the roof. The gases are then discharged to steel stacks, lined with gunnite. The performance of this equipment guarantees the removal of over 95 per cent of the solids in the gases.

Steam Turbines

The turbines receive steam at the throttle at 850 pounds psig at a temperature of 900 degrees Fahrenheit, and exhaust at 1.5-inch mercury absolute. These turbines are two-cylinder, impulse-type. The low-pressure cylinder has two exhausts which are connected to twin condensers.



J. CLARK KEITH GENERATING STATION—Steam turbine control-board

Main Condensers

Each of the twin condensers has 13,750 square feet of cooling-surface made up of 7/8-inch OD inhibited Admiralty metal tubes, 21 feet 9 inches long, through which cooling-water is pumped from the intake tunnel under the power-house basement. The condensers are single-pass and the cooling-water discharges to the outlet tunnel which is also under the basement floor.

Cooling-Water

Cooling-water for the condensers enters the screen-house well from the Detroit River. There debris is removed by electrically-driven and automatically-washed travelling screens. The raw water is treated with a minimum amount of chlorine to prevent the formation of slime in the condenser tubes. It is discharged through tunnels under the power-house basement at a point down-stream from the intake.

Feed-Water Heating System

Steam withdrawn from the turbine at five extraction points is used for heating the condensate being returned to the steam generator. Condensate pumps draw the condensate from the hot well of the condenser and force it through two low-pressure heaters into the de-aerator. From the de-aerator the feed-pumps force the feed-water through two high-pressure heaters into the economizer section of the steam generator. Certain unavoidable losses of steam and condensate, due, for example, to blow-down, are replaced by evaporating treated-water. The vapour joins the main stream of feed-water in the de-aerator.

Electric Generators

The electric generators, direct-driven from the steam turbine through a flexible coupling, are 66,000-kw, 3-phase, 1.0 power factor, 13.8-kv machines for operation at 3,600 rpm and 60-cycle frequency. They are hydrogen-

cooled and rated at $\frac{1}{2}$ pound psig, but may be operated at 15 pounds psig for overload. The generators are connected to the main transformers through an isolated phase-bus in an underground tunnel. The main and pilot exciters are driven by the generator through a gear reduction for operation at 1,145 rpm. Provision has been made for disconnecting the first two generators from their turbines for the operation of these generators as synchronous condensers when required.

Control Building

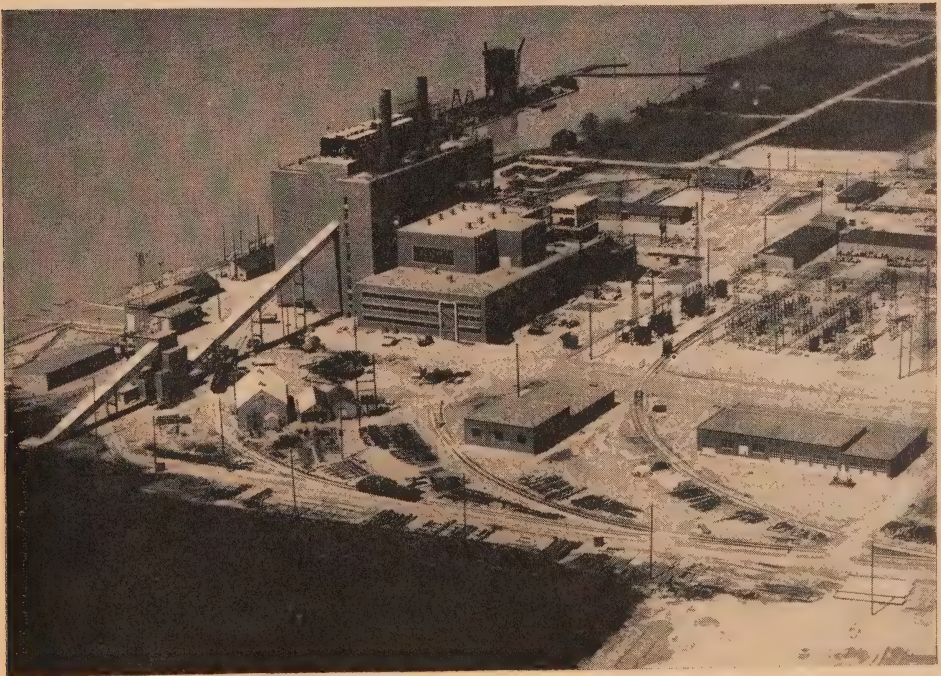
The control building is adjacent to the high-voltage switchyard and main transformers. From this point, all high-voltage switchgear is remotely controlled, and the main units are synchronized and loaded as required.

Auxiliaries

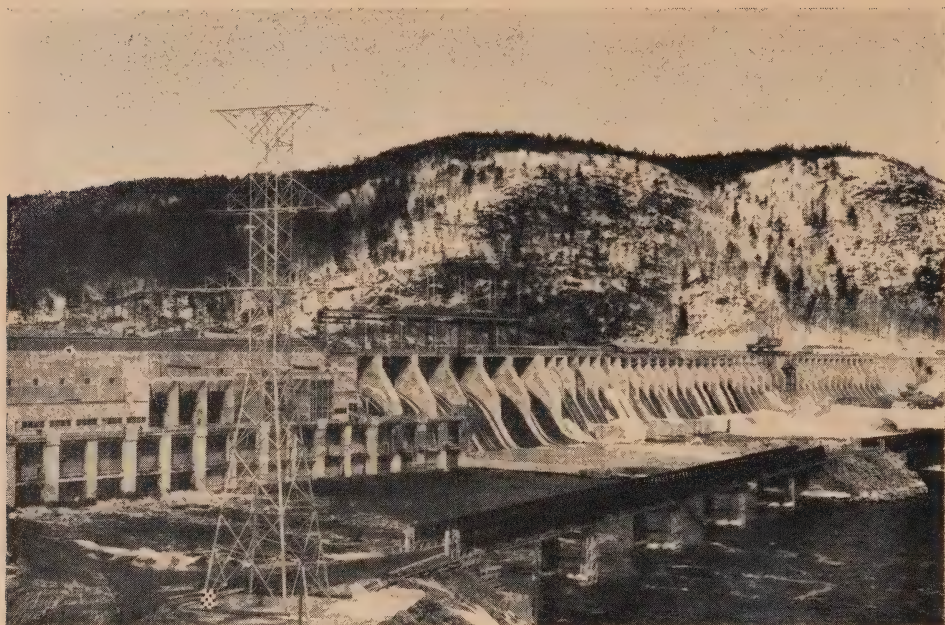
All auxiliaries are motor-driven. They can be supplied either from a unit transformer or from an outside source.

Coal Handling

At the coal dock on the Detroit River, self-unloading boats discharge into a large hopper. A belt conveyor carries the coal from the dock to a second belt conveyor which, by means of a swinging boom, deposits the coal on the ground in a crescent-shaped pile. From here bulldozers and carry-alls move the coal either to storage or to a reclaiming hopper. From the reclaiming hopper the coal is carried by another belt conveyor to the crusher-house



J. CLARK KEITH GENERATING STATION—General view, including coal storage



OTTO HOLDEN GENERATING STATION—December, 1951

where it is reduced below $\frac{3}{4}$ inch in size. After passing through the crusher it is carried by a fourth belt conveyor to the coal bunkers and distributed by a travelling tripper.

Ash Disposal

Fly ash from the mechanical collectors and electrostatic precipitators is carried pneumatically to a tank. It is made into a slurry with the "hopper" and "bottom" ash, and then pumped to the disposal area, where the ash settles and the water is decanted to the river.

OTTO HOLDEN GENERATING STATION—OTTAWA RIVER

<i>Situation</i>	—About 5 miles up-stream from Mattawa.
<i>Dependable Peak Capacity</i>	—204,000 kilowatts in eight units, 60 cycles.
<i>Rated Head</i>	—77 feet.
<i>Estimated Cost</i>	—\$54,465,000, including generation, transformation, and high-voltage switching at the site.

Construction Procedure

Satisfactory progress was made on the construction of major elements in the development. At the main dam, closure operations which began on August 9 were suspended for a three-week period during late October and early November because of high river-flow. They were resumed in mid-November though subject to periodic delays for the remainder of the year.

SIR ADAM BECK-NIAGARA GENERATING STATION No. 2—NIAGARA RIVER

<i>Situation</i>	—About 1½ miles above the Town of Queenston and adjacent to Sir Adam Beck-Niagara Generating Station No. 1.
<i>Installed Capacity</i>	—525,000 kilowatts in seven units, 60 cycles.
<i>In Service</i>	—Scheduled for initial service in 1954.
<i>Estimated Cost</i>	—\$185,320,000, including generation, transformation, and high-voltage switching at the site.

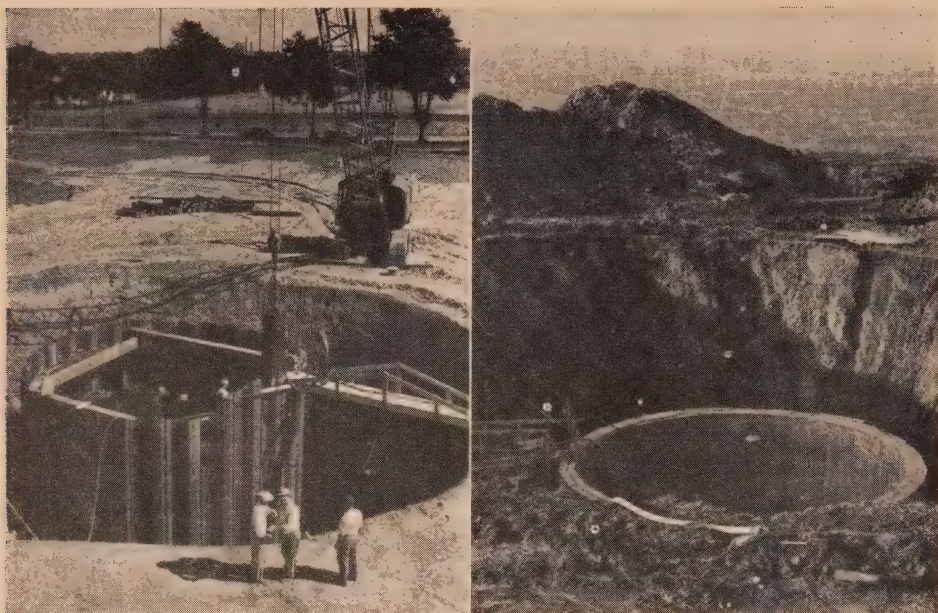
At Sir Adam Beck-Niagara Generating Station No. 2 authorization was given to an increase in the installed capacity to permit the addition of a seventh unit.

The development will have its intake on the shore of the Niagara River near the Village of Chippawa. Water will be conveyed to the forebay and head-works by a tunnel about 5 miles long and an open channel about 2 miles long. The forebay is located near that of Sir Adam Beck-Niagara Generating Station No. 1. From the head-works seven penstocks will lead to the power-house on the river-bank a few hundred feet up-stream from Sir Adam Beck-Niagara Generating Station No. 1.

Work commenced late in 1950 on the construction of access roads and camp buildings. A major project is the access road leading from a point near the Niagara Glen down into the gorge to the power-house site. Area surveys were proceeding during 1951 as plans for the tunnel were developed. At the same time the strata through which the tunnel and canal will pass were explored by diamond drilling.



SIR ADAM BECK-NIAGARA GENERATING STATION No. 2—Penstock excavation, December, 1951



SIR ADAM BECK-NIAGARA GENERATING STATION No. 2—Construction shafts to tunnel, through overburden to bed-rock

Left: Using steel piling

Right: Using concrete caisson owing to shortage of steel

During 1951 excellent progress was made by the contractors entrusted with the construction of the first of two pressure tunnels that will convey water from the intake near Chippawa to the open canal that will feed the forebay of the new generating station near Queenston. The Commission's own construction forces proceeded at full speed with the building of roads and camps and the preparatory excavation and rock-work for the canal, forebay, and power-house at the site of the generating station.

The tunnel will be constructed in five sections, and contracts for all sections have been awarded. Construction of the access shafts for the tunnels began in July. At the same time excavation for the penstocks and the power-house site was undertaken by the Commission's Construction Division. By the end of the year the sinking of two of the shafts was practically completed and work was well advanced on two others. The second stage of the development, which is now under active consideration, will involve extensions to the forebay, head-works, and power-house to accommodate twelve generating units in all. To serve these additional units a second tunnel roughly parallel with the first would be undertaken. The canal, as at present planned, will be adequate to serve both tunnels.

The Commission's Niagara River model and other models in the Hydraulic Laboratory at the University of Toronto have been used in investigations of the design of the channel, the interconnected forebays, and the tunnel as well as in studies of types of equipment to be used. This type of design investigation has effected estimated savings in construction costs of about \$5 million.

Transformer Stations and Transmission Lines

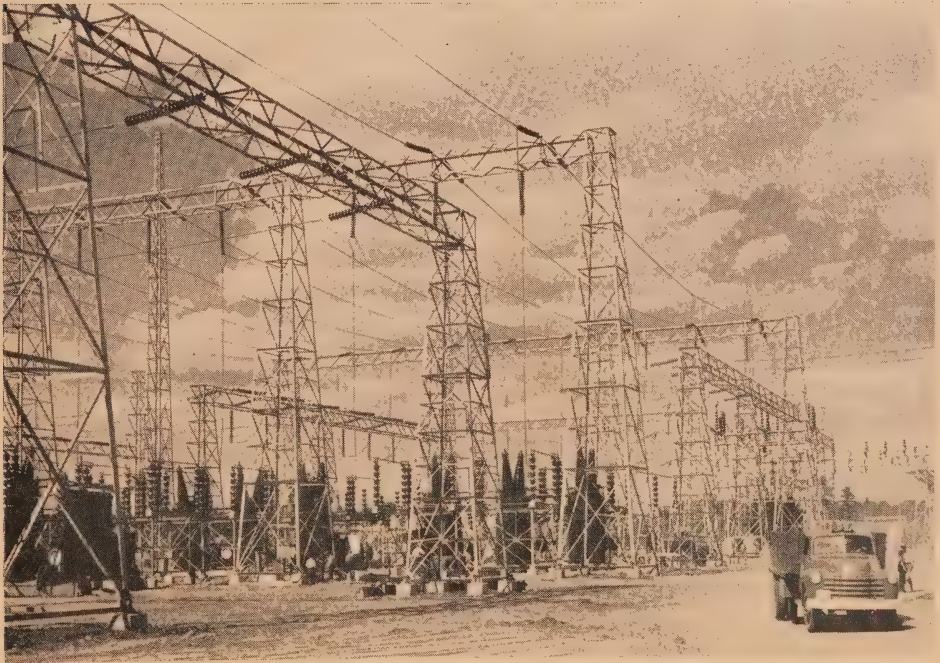
Details of the main projects constructed or under construction in 1951 follow. Brief details of other projects are to be found in Appendix IV. Also in Appendix IV are the following tables:

Changes in Transformer Capacity During the Year
Total Transformer Step-Down Capacity
Total Mileage of Transmission Lines and Circuits

FACILITIES TO RECEIVE POWER FROM DES JOACHIMS AND OTTO HOLDEN GENERATING STATIONS

In the 1950 Annual Report reference was made to the fact that the first 230-kv circuit from Des Joachims Generating Station to E. V. Buchanan Transformer Station was put in service in 1950. In July 1951 the second circuit between Des Joachims Generating Station and Essa Transformer Station, a line 172 miles in length, was placed in service. The second circuit from Essa Transformer Station to E. V. Buchanan Transformer Station, 122 miles in length, was completed in 1951 and is expected to be in service in January 1952. These two line sections totalling 294 miles, when added to the 866 miles placed in service in 1950, will complete 1,160 of the 1,250 circuit miles of 230-kv lines required to transmit Des Joachims and Otto Holden power to the southern Ontario area.

Essa Transformer Station, with a transformer capacity of 70,000 kva which was referred to in the 1950 Report, was placed in service as scheduled in July 1951. Work is in progress on a second 70,000-kva, 230/115-kv auto-



ESSA TRANSFORMER STATION—230-kilovolt switchyard

transformer bank which is expected to go in service early in 1952. At Minden Switching Station, work is continuing on the installation of 230-kv switching equipment.

At Petersburg, near Kitchener, a 230/115-kv transformer station is under construction. The station will have a transformer capacity of 180,000 kva and will be connected to the 230-kv line from Essa Transformer Station to E. V. Buchanan Transformer Station. It is expected that the construction will be completed early in 1953.

Construction is continuing on the 230-kv transmission line from E. V. Buchanan Transformer Station to J. Clark Keith Generating Station and the line is expected to be ready for service in January 1952. It will be operated initially at 115 kv, 60 cycles.

E. V. Buchanan Transformer Station

Work is continuing on the installation of additional 230-kv, and 115-kv line switching equipment. The 115-kv switching equipment for the St. Thomas and Kent lines was placed in service in July 1951. Installation of the third 120,000-kva, 230/115-kv, 3-phase autotransformer, formerly a spare unit, with associated switching equipment has been authorized and is expected to be placed in service in 1952.

A. W. Manby Transformer Station and Service Centre

Two 40,000-kva, 26.4-kv, 60-cycle regulating transformers were placed in service in August 1951. At this station the installation of equipment required to take delivery of Des Joachims and Otto Holden power has been completed.

Burlington Transformer Station

The two 90,000-kva, 3-phase, 60-cycle, 230/121/13.2-kv autotransformers and one 48,000-kva, 60-cycle synchronous condenser mentioned in the 1950 Report were placed in service in 1951, the autotransformers in April and the synchronous condenser in August.

FACILITIES TO RECEIVE POWER FROM CHENAUX GENERATING STATION

The second 70,000-kva, 230/115/13.2-kv autotransformer at Ross L. Dobbin Transformer Station was placed in service in March 1951.

Scarborough Frequency-Changer and Transformer Station

A third 25,000-kva, 115/26.4-kv, 60-cycle transformer was placed in service in September 1951. The installation of a fourth similar transformer is under way and it is expected to be in service in May 1952. The 115-kv line switching for the 115-kv, 60-cycle line from Ross L. Dobbin Transformer Station was placed in service in January 1951. The 115-kv feeder switching to connect the line to Toronto-Thorncliffe Transformer Station was completed and ready for service in December 1951.

FACILITIES FOR THE INCORPORATION OF RICHARD L. HEARN GENERATING STATION INTO THE SOUTHERN ONTARIO SYSTEM

One mile of 4-circuit, 115-kv steel tower line and one mile of 115-kv underground cable required to connect Richard L. Hearn Generating Station to the Southern Ontario System 115-kv network was constructed and placed in service in 1951. One of the circuits on the steel tower line was placed in service in October 1951 at 25 cycles. The second circuit, together with the underground cable, was placed in service in November 1951 at 60 cycles.

FACILITIES ASSOCIATED WITH THE INCORPORATION OF SIR ADAM BECK-NIAGARA GENERATING STATION NO. 2 INTO THE SOUTHERN ONTARIO SYSTEM

During 1952 certain facilities will be installed to meet the increasing demand for advance 60-cycle supply in the Niagara Region, a demand which will exceed the capability of the present 115-kv, single-circuit supply from Burlington Transformer Station. These facilities will integrate completely with the incorporation of Sir Adam Beck-Niagara Generating Station No. 2 into the Southern Ontario System in 1954. They will deliver 230-kv, 60-cycle power from Burlington Transformer Station to a 60-cycle transformer station at Allanburg for distribution into the expanding 115-kv, 60-cycle network of the Niagara Region.

New construction, already authorized, embraces 43 miles of 230-kv, double-circuit transmission line from Horning Mountain Junction, immediately south of Dundas Transformer Station, to Allanburg Transformer Station, and two 120,000-kva, 230/115-kv autotransformers with associated switching at Allanburg Transformer Station. Also related thereto is the additional switching for one 230-kv, 60-cycle line terminating at Burlington Transformer Station. The new 230-kv transmission line will connect at Horning Mountain Junction with an existing 230-kv line from Burlington Transformer Station.

Construction of additional lines and stations for the incorporation of Sir Adam Beck-Niagara Generating Station No. 2 into the Southern Ontario System will be undertaken later.

FACILITIES TO SUPPLY 60-CYCLE POWER IN ADVANCE OF SCHEDULED FREQUENCY STANDARDIZATION

In the 25-cycle area facilities are under construction to make possible the supply of new and growth loads at 60 rather than at 25 cycles in advance of frequency standardization. The necessary transmission lines have also been constructed. Details of the location and construction of these facilities are to be found in Appendix IV.

ADDITIONAL FACILITIES TO RECEIVE POWER IN THE SOUTHERN ONTARIO SYSTEM

Four new 115-kv transformer stations were completed and five were under construction in 1951 in addition to those individually reported. New stations are the Seaforth, Windsor-Crawford, Owen Sound, and Toronto-John Transformer Stations. Those under construction are the Hamilton-Kenilworth, Brantford, Brockville, Belleville, and Hanover Transformer

Stations. In addition, the necessary 115-kv lines were constructed as required. Details of these stations and lines are given in Appendix IV.

Transmission Line Changes and Additions

During the year the net increase in transmission lines in the Southern Ontario System exclusive of rural lines was 392.1 miles. Rural line additions amounted to 2,656 miles.

Frequency Standardization

During the year, the Electrical Engineering Department has carried out the standardization of frequency-sensitive equipment in the Commission and municipal systems, together with the provision of the necessary 60-cycle power supply to meet the frequency standardization schedule in the Woodbridge, Etobicoke Township, Sarnia, St. Marys, Seaforth, and Strathroy districts and in the City of London.

NORTHERN ONTARIO PROPERTIES

Surveys were made at a number of potential power sites in northern Ontario, particularly on the Abitibi River below the Canyon development. Topographic and geological surveys were made at four sites on this river, at Otter, Sextant, Coral, and Nine Mile Rapids. Foundation exploration by diamond drilling was undertaken at Otter Rapids and lower Coral Rapids. The heads at these various sites vary from 55 to 78 feet. Preliminary surveys were made also at sites on the Mattagami River.

Farther west a survey party collected data at the Boundary Falls site on the Winnipeg River, and further study was given to Manitou Falls on the English River.

Voltage Change in Sudbury District

A considerable number of lines and stations supplying 22-kv power are being changed to 44 kv. This affects 10 stations and 30 miles of lines. It involves the construction of 17 miles of line; the change-over of 20 miles of line from 25-cycle, 26.4-kv operation to 60-cycle, 44-kv operation; and requires the replacement at R. H. Martindale Transformer Station of the existing two 8,000-kva, 3-phase, 115/22-kv units, by transformers of a larger capacity.

The work will be completed in 1952.

Dryden-Moose Lake Interconnection

The 115-kv transmission line between Moose Lake and Dryden, referred to in the 1950 Report, was completed and placed in service in April 1951. At Dryden Transformer Station the first of two 8,000-kva transformer

banks was placed in service at the same time. The second bank is scheduled for service in the spring of 1952.

This establishes the connection between the Thunder Bay System and the Patricia District of the Northern Ontario Properties.

Kapuskasing Transformer Station

An 8,000-kva, 60-cycle transformer station was completed at Kapuskasing, and 40 miles of 115-kv transmission line linking this station to Smooth Rock Falls Transformer Station were placed in service in 1951.

Transmission Lines

The net increase in transmission line mileage during the year amounted to 175.27 miles exclusive of rural lines. Rural line construction amounted to 754 miles.

PLANNING

In system and program planning, provision was made for the lines and stations needed to incorporate the following into the Southern Ontario System: Sir Adam Beck-Niagara Generating Station No. 2; Richard L. Hearn Generating Station, Units 3 and 4; and J. Clark Keith Generating Station, Units 3 and 4. Study was undertaken of the 230-kv transmission facilities that will be required when the St. Lawrence power is developed.

The planning of lower voltage transmission and distribution lines and stations kept pace with the steady growth of load in all regions. For example, extensive changes and additions were planned in supply facilities in the Sarnia area because of load growth in the chemical industry. The decision reached late in 1950 to make 60-cycle power available to major centres in advance of complete standardization created numerous planning problems during 1951.

The Commission's frequency standardization program involves careful timing of the conversion of generating stations now operating at 25 cycles. Future demands at both 25 and 60 cycles must be estimated, constantly checked and revised, and used as the main basis for the schedule of generator conversion. In no other way can the most efficient use of hydraulic resources be assured.

The Commission continued its studies of potential sources of hydro-electric power and of water-storage possibilities. The cost of producing electric energy in the Commission's new large-scale fuel-electric generating stations now provides a basis for comparison in considering the cost of further hydro-electric development.

SECTION VI

RESEARCH AND TESTING ACTIVITIES

THE general expansion during 1951 of the Commission's plant and associated facilities was accompanied by corresponding progress in its research and testing activities. In addition to routine electrical, mechanical, and chemical testing, consulting services were provided on special technical problems, and approved engineering research programs connected with construction, operation, and maintenance of the Commission's Systems were followed.

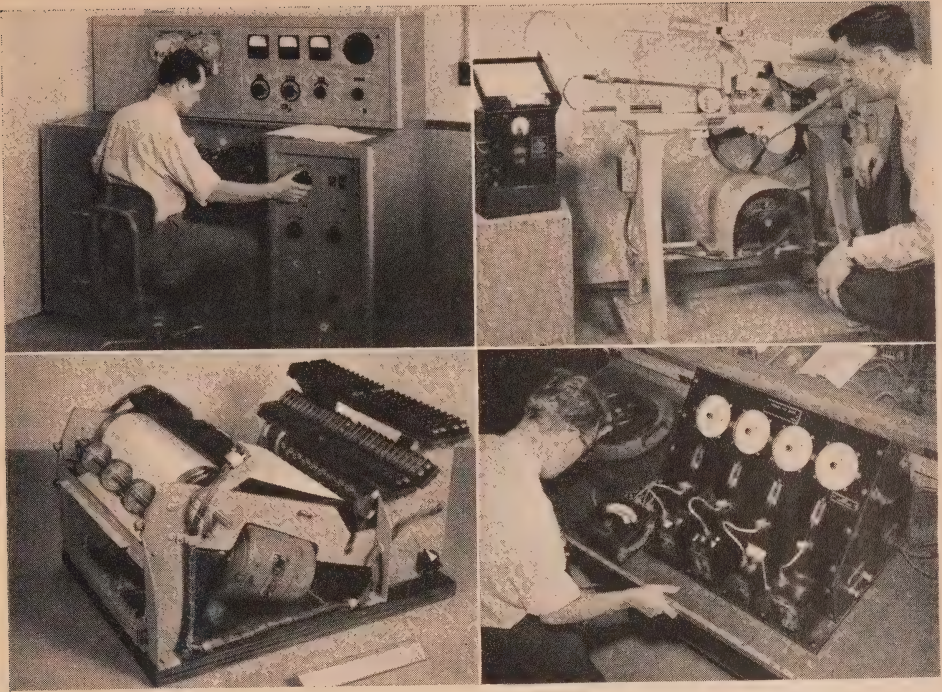
Detailed results of the research investigations conducted cannot be given here nor can mention be made of very many of them. Those briefly discussed represent new developments or significant advances in long-term projects and they suggest the general character and scope of the year's work.

Studies in Lighting and Other Uses of Electricity

The Commission co-operated with the Ontario Agricultural College in studying new applications of electric power on farms. Experiments have proved that it is practical to use a low-voltage wire-mesh system to heat soil in greenhouses. The use of this system as an alternative to heat-producing manure in outdoor frames is being studied. In experimental mow-curing of hay, data were obtained on forced-air movement, moisture pick-up, fan characteristics, and electric power consumption. An illumination panel containing both fluorescent and incandescent lamps was designed and constructed so that plant growth entirely under artificial light might be studied.

A check was made of possible fire hazards involved when infra-red heat-lamps are used to provide heat for chicks and young farm animals. Tests were made to determine the necessary electric loading for soil-heating cable used along with thermal insulation to keep water-pipes from freezing.

Where fluorescent lamps have been used for street lighting in Europe and the United States, a considerable reduction in light output at low temperatures and starting difficulties at temperatures below zero Fahrenheit have been experienced. The Commission is, therefore, making tests to determine the adequacy of such street lighting in Ontario.



Top left: A test-board designed to provide precise data on watt-hour meter performance under closely controlled conditions

Top right: Performance testing in the structural research laboratory

Bottom left: Portable sequence recorder for field use. By the use of fine-wire styli on electro-sensitive paper it enables automatic recording of the sequence and duration of up to 48 separate relays during large-scale tests on the power system.

Bottom right: Comparative testing of service-entrance circuit-breakers

Electric Metering and Communications

Some extension of laboratory facilities was necessary for work on problems pertaining to the selection, application, maintenance, and improvement of power-metering equipment. The economic importance of single-phase watt-hour meters has prompted critical comparative testing of the various makes. Factors being investigated include legibility of indicating dials, accuracy at light loads, effect of sustained maximum design load, and ability of retarding magnets to resist demagnetization.

Interference with television reception, which may be created by power lines, was studied in detail to determine causes and devise remedies to be applied when broadcasts begin in Ontario.

Improvement of Grounding Methods and Equipment

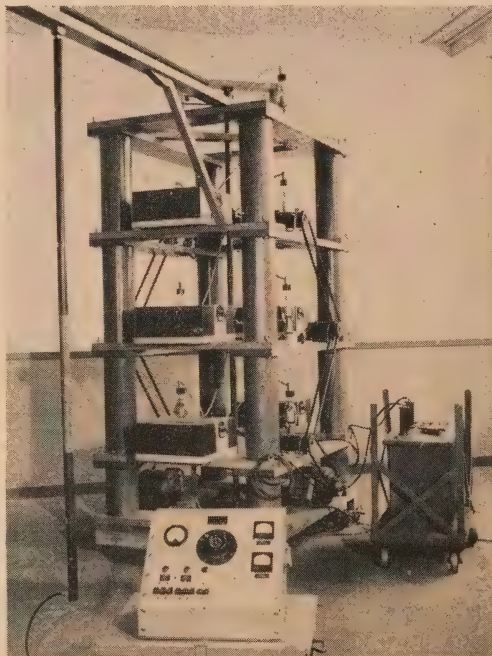
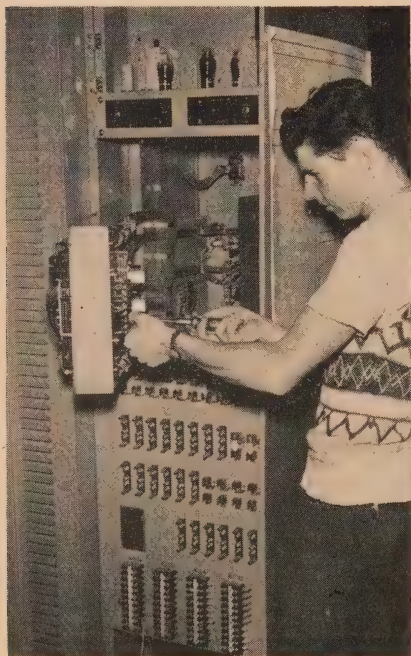
The grounding of customers' services to metal water-pipes, which are supplied from water-mains made of insulating material, was investigated and proved to be satisfactory without the use of additional ground rods in most instances. Grounding practices at privately-owned high-voltage substations were examined and a specification was prepared for quick guidance in maintaining a minimum grounding standard at these installations. An electrolytic gel treatment for ground rods, developed in Sweden and designed

to reduce the electrical resistance, is being tested for Commission use; it involves the injection of chemicals into the ground through perforated hollow rods to form a conducting gel with a low solubility in water.

Difficulties in finding adequate grounding occur where there are outcroppings and extensive subsurface rock. In such an area in eastern Ontario measurements showed that adequate grounding could be obtained by means of a heavy neutral conductor connected to improved grounds elsewhere on the system.

Investigations for Safety

Constant effort is made through laboratory projects to maintain safe working conditions throughout the Commission. When tests showed that electric blasting-caps could be detonated by radio-frequency current from radio transmitters the hazard was evaluated and recommendations were made for the protection of personnel. A study was made of the operation of power-driven earth augers in hard ground. The hardness of the ground may cause the auger to bounce and make contact with live overhead circuits. A model of a distribution system was built to instruct operating personnel in the dangers of transformer backfeed when repairs are being made on primary lines. For educational purposes a demonstrator was designed to make possible the application of electric shock to human beings under safe, controlled conditions.



Left: Assembling an automatic recording oscillograph at the laboratory, for installation at one of the Commission's power stations

Right: Overvoltage testing. Set capable of developing 260,000 volts direct current, particularly for testing 115,000-volt cables after installation

Operational Testing of Major Power Equipment

A prerequisite for large-scale performance tests of the Commission's major electric power equipment was the design and construction of various items of special test apparatus. These included the following: a sequence recorder to establish the sequence and duration of operation of a large number of relay contacts by the use of a moving strip of electro-sensitive paper; hot-wire anemometers to record wind velocity which affects the duration of electric power arcs; cameras with continuously moving film to record the behaviour of arcs; a shaft-position indicator to measure instantaneously the amount of departure from synchronism of machines at the two ends of a line under test; and an oscillogram scaler to facilitate the analysis of records obtained.

Testing of Electrical Apparatus Insulation

Significant advances were made in perfecting methods of testing the condition of generator insulation. The importance of this work increases as insulation of the Commission's older generators approaches the end of its estimated service life. It now appears possible to test major insulation so as to determine non-destructively its mechanical flexibility and the breakdown strength of its weakest spot. Thus the probable remaining life of the insulation can be estimated and the feasibility of repair assessed. It also seems possible to disclose the presence in top coil-sides of dangerous voids that can lead to accelerated deterioration and faults between strands or turns.

In 1951 the installation of three 115-kv underground power cables hastened the need for a d-c set for acceptance testing of the electrical insulation at voltages up to 260 kv. Accordingly, a portable set was built and used successfully. This is believed to be the first time in Canada that such tests have been performed after installation.

Distribution System Equipment and Disturbances

Commercially available service-entrance circuit-breakers were tested for such features as impact resistance, surge strength, relatching time, and calibration. Other tests involved numerous heat runs on distribution transformers to determine their overload capacities and thus to establish desirable tripping characteristics for associated breakers. This comparative testing enables better selection of distribution equipment to provide a high quality of service.

Equipment was designed and built to facilitate destructive testing of distribution fuse links in large numbers. Data accumulated by these tests will be used to establish a statistical sampling program.

Joints and Connections in Electric Conductors

A second bolometer for detecting overheated transmission-line joints was constructed, featuring higher accuracy and greatly reduced weight. It was used to examine several 115-kv circuits. A sample check of 100 joints in a 230-kv line indicated that a bolometer survey would be useful.



TESTING CONCRETE

Field laboratory for control of concrete quality at Sir Adam Beck-Niagara Generating Station No. 2

Long-term outdoor corrosion tests were begun using specimens consisting of plates and lugs of dissimilar conductor metals mounted in stacks. More than 8,000 specimens are required to provide adequate statistical data. Electrical contact resistances will be measured periodically to determine the significance of different pressures, contact surfaces, and cleaning procedures. Commercially available compression joints for several of the smaller sizes of copper and aluminum conductors were evaluated and found to be generally satisfactory for Commission use.

Concrete Materials

Concrete control activities have shifted from the Pine Portage, Des Joachims, and Chenaux developments to the Otto Holden, J. Clark Keith, Richard L. Hearn, and Sir Adam Beck-Niagara No. 2 Generating Stations. Field laboratories were established at these new locations to enable the control staff to test the concrete and its ingredients during construction operations, and to assist research projects on proportions of special mixes and the thermal behaviour of mass concrete.

At Sir Adam Beck-Niagara Generating Station No. 2 the early removal of steel forms from concrete will be necessary. This has posed the problem of designing a concrete mix suitable for lining the 50-foot tunnel and having the power of rapidly developing strength. The sonoscope was used to measure pulse velocities and hence strengths of various mixes, even in the plastic state.

The present shortage of steel has focussed attention on the use of pre-stressed concrete beams as supporting structural members. This technique is more advanced in Europe than elsewhere. The Commission has recently

developed a built-up roof-beam of 8-inch, concrete blocks in which grouted cables of high-tensile steel provide the pre-stressing.

Test work was concluded on the fly-ash concrete placed experimentally in a section of the Otto Holden Dam during its construction. It proved to have higher ultimate strength and less heat generation than regular concrete and thus confirmed laboratory findings.

Studies were continued of the properties of concrete which influence its durability in service, including measurement of air content and the thermal expansion of aggregates. Temperature records of certain mass concrete structures are being compiled and correlated with findings from tests with the sonoscope and on core specimens.

Measurements are made periodically on the Commission's large structures, such as power-houses and dams, to reveal any dimensional changes which may be occurring. Special instrumentation is used to obtain data on autogenous growth of concrete, creep strain, and foundation movements, to enable their effects to be minimized. Since cement is the most costly ingredient of concrete, means of reducing the cement content and of improving hydration efficiency were studied continually. Trends in the manufacture of regular Portland cement and in the use of blast-furnace slag for its partial replacement were followed closely.

Metallurgical Investigations

Welding studies were continued to determine the materials and practices best suited for welding jobs arising in the Commission's operations and to supply information for the guidance of the field forces. A report was prepared on the physical properties and weldability of the standard grades of low-carbon steels used for structural and pressure-vessel work.

Soil Mechanics

Many soil mechanics investigations have been undertaken to handle a wide variety of foundation and road building problems and to develop new support techniques and testing methods. A typical project at a transformer station site involved a soft compressible soil that underlay a hard surface crust; numerous compression and consolidation tests revealed that the structures should be supported on many small footings founded in the hard surface.

A laboratory study was made of a mixture using fly-ash and lime to form a relatively weak but inexpensive cement for increasing the stability of secondary roads. The permanence of this treatment will be tested in the field. An investigation of frost heaving of small footings was begun using models experimentally treated and installed in frost-susceptible soil.

Vibration Problems

In the continuing study of means of preventing line-conductor vibration, fifty experimental torsional dampers having conducting-rubber washers were placed in service; their performance will be checked periodically. New equipment devised for the study of transmission-line galloping included indicators of torsional and transverse movement, a high-performance anemometer, a wind-direction indicator, and a photographic target which an observer on the ground can project over and clamp to a conductor when galloping occurs.



CHEMICAL RESEARCH

A section of the laboratory dealing mainly with problems related to fuel-electric generation

Stress Measurement and Analysis

The number and spacing of the reinforcing bars around the inspection galleries in the main dam at Otto Holden Generating Station were varied for experimental purposes. Resistance-wire strain gauges were also installed and stress measurements will be made to obtain data for comparison with theoretical calculations. A more accurate knowledge of the stresses occurring in large gravity dams will assist the design engineers.

Concrete panels for measuring forebay ice pressure have been installed in the face of the dams at Des Joachims, Pine Portage, and Otto Holden Generating Stations. Instrumentation will record ice thrust; temperatures of air, snow, and ice; thickness of snow and ice; velocity and direction of wind; and incident radiation.

Wood Preservation

In efforts to devise means of controlling the bleeding of pressure-treated pine poles, a field test-plot was established in 1950 containing 120 wood poles which had been subjected to various preservative treatments. Subsequent examination indicates that creosote will bleed less than a mixture of pentachlorophenol and fuel oil, and that an initial air pressure lower than that formerly used during the treating period will greatly reduce bleeding.

Laboratory tests of copper borate for wood preservation have shown that it is clean, dry, non-bleeding, fire-resistant, non-leachable, unaffected by sunlight, and easily painted. It does not affect the strength and hardness of the wood. A full-scale plant treatment of 5,000 poles is being undertaken.

The adoption of copper pentachlorophenate throughout Canada as a standard reference wood preservative has necessitated further laboratory testing. The Commission's laboratories are co-operating with those of the Forestry Branch of the Federal Department of Resources and Development on this project.

Insulating Oils and Lubricants

During the past two years, thousands of samples (representing over ten million gallons) of electrical insulating oil from major power equipment have been laboratory-tested as part of a system-wide survey which will be periodically repeated. The data obtained are being compiled in service histories which help to determine causes of accelerated deterioration and to establish adequate, economical maintenance schedules and reclamation procedures.

Protective Coatings and Thermal Insulation

Before selection for use by the Commission, new materials and the constantly changing formulae for protective coatings have been critically examined. Some typical investigations involved water-emulsion waxes and anti-slip agents; automotive underbody coatings; wall paints for sealing, priming, and finishing; roofing pitches and felts; and a suitable coating to facilitate the periodic cleaning of porcelain insulators exposed to cement dust.



RESEARCH IN APPLIED MECHANICS

Typical problems involve ice pressure on dams, dimensional stability, and the measurement of stresses and loads in structures.

Basic studies and tests of thermal insulation were made to determine requirements for Commission buildings, to compare the merits of commercial products, and to develop suitable application techniques. In an effort to combat condensation on cold surfaces, studies were made of anti-sweat pipe coatings, the moisture absorption of sprayed asbestos, the vapour-barrier properties of different building papers, and, in co-operation with National Research Council of Canada, the methods of measuring vapour permeability.

Brush and Insect Control

Extensive use has been made of chemical herbicides to control brush along Hydro rights-of-way throughout the Province. Experimental work on both foliage spraying and basal-bark treatment of resistant woody plant growth during the dormant season was continued in test-plots. Aircraft application of oil-herbicide solutions appears to be practical.

The program of black-fly control in northern areas of the Province was continued. As the result of study, procedures were recommended for controlling mosquitoes, ants in cafeterias, and cockroaches in quarters containing equipment sensitive to commonly-used chemical insecticides.

Instrumental Methods

Spectrophotometric analysis techniques are finding wider use in the Commission's research work for such determinations as phosphates and silica in boiler water, copper in wood preservatives, molybdenum in steel, and oxidation products in insulating oil.

The success of the Commission's linascope method of fault location on power transmission and communication circuits has led to the present use of about twenty of the portable units on open-wire lines; its pulse-echo technique was also applied in the detection of faults on underground cables.

Corrosion

The Commission's province-wide operations frequently necessitate the use of water containing significant amounts of hardness salts and corrosive materials. Measures to minimize scale deposition, corrosion, and algae growth in transformer cooling-systems, steam condensers, and boilers, can reduce maintenance costs and the number of outages. To devise such measures, the materials, methods, and equipment used in the industrial treatment of water were tested and evaluated.

Continued effort is being made to improve the corrosion-resistance of domestic water-heater tanks. Samples of water from about seventy Ontario municipalities were analysed to determine their corrosiveness.

Miscellaneous Research and Testing

Research and testing activities pertaining to power transmission problems have increased, mainly because of the modern trend toward more complex interconnection of power networks, larger blocks of power, and higher transmission voltages. Typical studies under way involve the permissible loading of open-air conductors, the economics of extra-high-voltage transmission, and the comparison of different types of line breakers.

Records of lightning strokes at three large transformer stations for the years 1946 to 1951 were analysed to determine the effectiveness of protection at present maintained. A map of Ontario, prepared from observations made at more than 200 meteorological stations during the period 1938 to 1949, provides more accurate and detailed information on thunderstorm activity in Ontario than was previously available.

The Commission's frequency standardization program has created a variety of research problems. Oil-burner components such as thermostats, primary controls, ignition transformers, and capacitors, were tested to determine the adequacy of conversion procedures and of quality control by manufacturers. Temperature-rise and torque tests were carried out on different types of fractional horsepower motors, some new and some rewound for 60-cycle service.

SECTION VII

PERSONNEL ADMINISTRATION

THE total number of Commission employees at December 31, 1951 was 20,079, approximately the same as in 1950. The number of regular employees, however, was increased by 1,153 to a record total of 11,258. The principal contractors and consultants engaged directly on Commission projects reported 5,855 employees at the same date.

For the most part the Commission's requirements were adequately met throughout the year. A shortage of experienced engineers and of certain classes of skilled tradesmen did cause some difficulty, especially in obtaining staff for the new large fuel-electric generating stations. The reduction in Commission staff that would normally follow the completion of several major projects was offset by the increase in staff at Sir Adam Beck-Niagara Generating Station No. 2.

Collective Bargaining

Excellent relations between the Commission and its employees prevailed during collective bargaining negotiations throughout the year. Activity in this field was increased as international craft unions sought certification by the Ontario Labour Relations Board as bargaining agents of the Commission's construction employees. In all, fifteen agreements were negotiated or revised, including the agreements with the Employees' Association and with the Federation of Employee-Professional Engineers and Assistants.

During the period under review, a collective agreement was signed with the Niagara Development Allied Council A.F. of L. Seventeen international A.F. of L. craft unions, covering all trades on the Niagara project, were thus brought together under a single agreement for the duration of the project.

Training

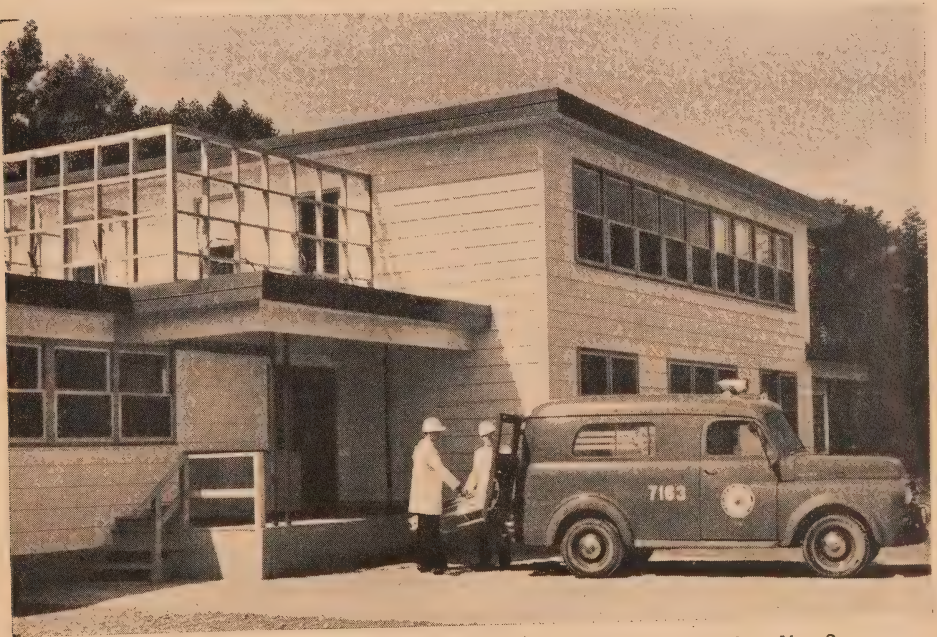
Employees' interest in the Commission's training program continued high during 1951. Registrations for correspondence courses were numerous,

classes at the Training Centre were full, and on-the-job training was continuous. More than 300 employees, mostly linemen and foresters, received instruction at the Training Centre.

Instruction in first aid was continued under an accelerated schedule and at the end of 1951 over 3,400 field employees had received elementary training representing over 19,000 hours of instruction. A new booklet, *Essentials of First Aid*, was published and distributed.

Medical

The Commission's medical services were extended during the year. At Head Office the chief medical officer now has a nursing staff, and two doctors on a part-time basis associated with him. Full-time nurses are also stationed at Abitibi Canyon, and in Toronto at Strachan Avenue, A. W. Manby Service Centre, and Richard L. Hearn Generating Station. A modern 30-bed hospital was opened in July to provide medical care for construction workers and other staff at Sir Adam Beck-Niagara Generating Station No. 2. In addition to the doctor in charge and his nursing staff, there are five first-aid men on 24-hour shift duty in the hospital, and others at first-aid posts elsewhere on the project. An ambulance is available at all times. On one special drive, some 300 employees gave blood to the Red Cross Blood Bank which undertakes to supply blood freely as required in the Commission's hospital.



The hospital at Sir Adam Beck-Niagara Generating Station No. 2

Safety

Safety officers were appointed in all regions during 1951 to provide trained leadership in the establishment of safe work practices. While these officers form part of the regional offices staff, they receive effective assistance and co-operation from the Safety Department at Head Office.

During the year eleven members of the Commission's staff were awarded the Canadian Electrical Association Medal for meritorious conduct in the application of artificial respiration. Of the four incidents recognized, three involved fellow workmen and the fourth a twelve-year-old boy.

One of the members of the Georgian Bay Region staff was awarded the President's Medal of the National Safety Council for his rescue of a seven-year-old girl from drowning.

SECTION VIII

MUNICIPAL ELECTRICAL ACCOUNTS

Accounts and Statistical Data of the Municipal Electrical Utilities Operated by Municipalities and Served by The Hydro-Electric Power Commission of Ontario

IN this section of the Report are presented individually and in summary the results of the operations of the local electrical utilities in municipalities owning their own distribution systems and operating with energy supplied by or through the Commission.

The financial statements given are prepared from the books of these utilities and show the effect of operations during the past year, and financial status at December 31, 1951. Other tables give useful statistical information on average costs for various classes of service and the rates in force for each class.

The books of accounts on which the statements are based are kept in accordance with an accounting system designed by the Commission and accepted as a standard for electrical utilities in all municipalities that have contracted with the Commission for a supply of power. During 1951 this system was installed in the municipalities of Cache Bay, Magnetawan, and Sturgeon Falls.

These books of accounts are periodically inspected, and from time to time improvements in office routine are recommended with a view to standardizing methods employed. In many of the smaller municipalities much of the book-keeping for the electrical utilities is undertaken by representatives of the municipal accounting department of the Commission. Supervision of this kind ensures the correct application of the standard accounting system and the uniform classification of revenues and expenditures. The actual operating results for each year are thus accurately reflected, and are easily compared with those of other years.

Assets and Liabilities

The consolidated balance sheets of the utilities for the years 1944-1951 are presented in the section first. Corresponding figures for the years 1913 to 1943 were published in the Report for 1943. This consolidation combines figures as they are classified on the balance sheets of all municipal electrical utilities receiving power under contracts with the Commission. The total plant value of these utilities has increased from \$10,081,469.16 in 1913 to \$173,732,456.91 in 1951, and the total assets from \$11,907,826.86 to \$329,051,073.78.

Net liabilities which amounted to 88 per cent of assets in 1913 fell to a low of 5.4 per cent in 1947 as the result of regular debt retirement either through serial debenture provisions or by maturing sinking funds. Much of the capital cost of adding to equipment during these years was financed out of reserves and surplus of the individual utilities without increasing their capital debt. In this way the funds of the systems have been used to best advantage.

Ratio of Net Debt to Assets

Owing to the recent acceleration in industrial growth and a greatly increased demand for power, many municipalities have been required to undertake major extensions and improvements of their distribution systems. At prevailing costs for material and labour, normal depreciation allowances and surplus have proved insufficient to provide for undertakings of these proportions. It has, therefore, been necessary for these municipalities to acquire new capital funds through the issue of debentures. This has had the effect, during the last four years, of reversing the trend downwards of the ratio of net debt to assets. In 1951 a net increase of \$4,820,387.01 in the debenture balance outstanding, corresponding with an increase in total plant value of \$17,574,393.16, makes the net debt at December 31 equal to 14.1 per cent of the assets.

In calculating the percentage of this relationship, only the local assets of the municipal utility itself have been considered. The accumulated equity in the Commission's systems has not been taken into account.

Net Operating Surplus

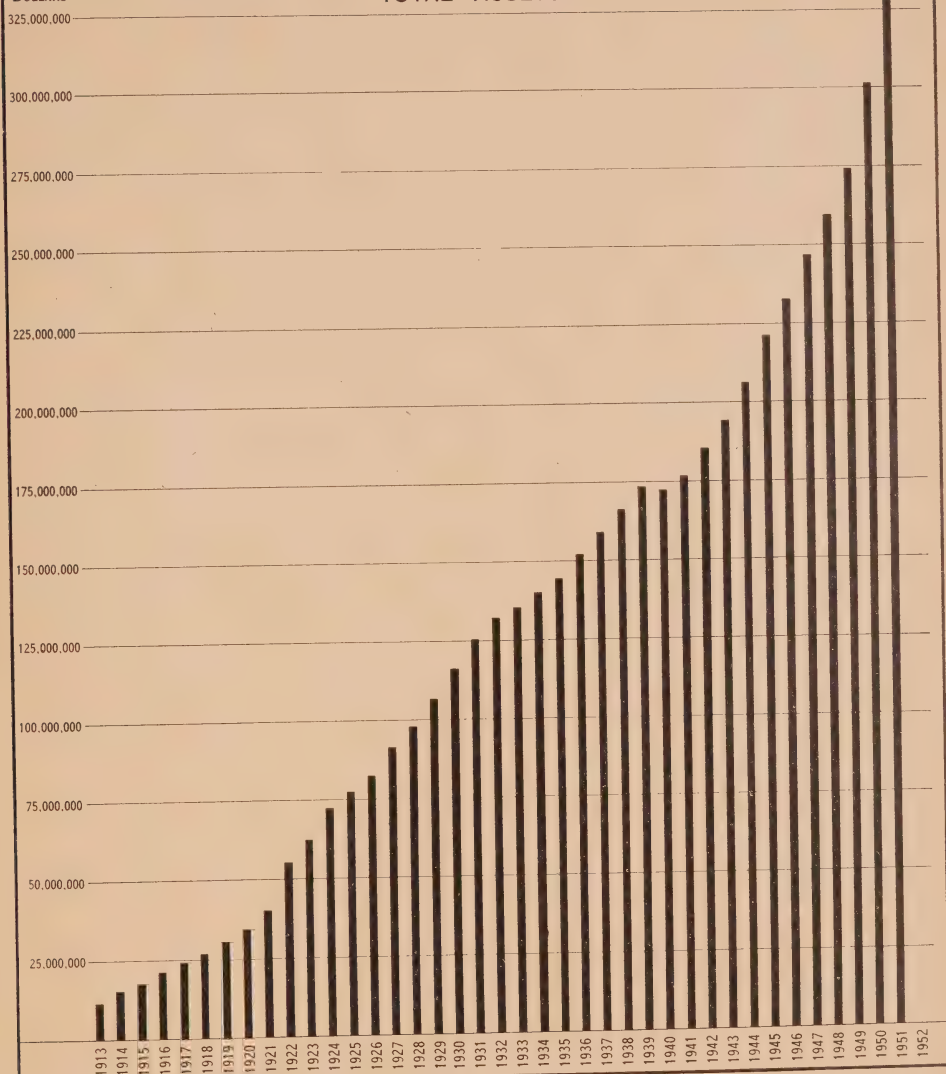
The consolidated operating reports combine figures from the operating reports of all municipal electrical utilities receiving power under contracts for the years 1944 to 1951. The combined operating reports for 1951 show a net surplus of \$8,667,340.07 after provision was made for cost of operation, and fixed charges that include a standard allowance for depreciation.

Four statements "A" to "D" follow in order. Statements "A" and "B" present for each municipal utility the balance sheet and operating report from which the consolidated reports have been compiled. The municipalities are arranged alphabetically under each system. Statement "C", dealing with rates, gives information regarding cost of power to the municipality and rates to local customers. In this statement municipalities are arranged alphabetically throughout. Statement "D" gives information on numbers of customers,

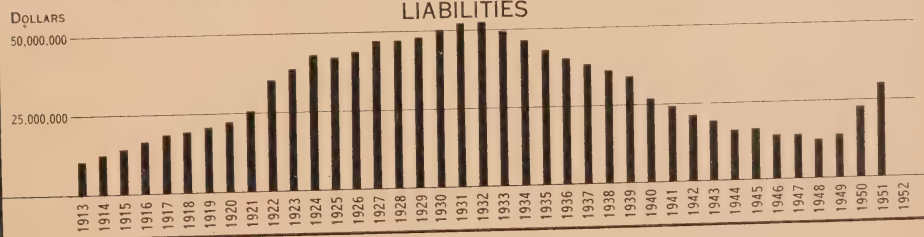
THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

MUNICIPAL ELECTRICAL UTILITIES
FORTY YEARS RECORD

DOLLARS TOTAL ASSETS



LIABILITIES



revenue, and consumption. Municipalities are classified according to population and are arranged alphabetically in four classes: (1) cities having a population over 10,000, (2) large suburban areas, (3) towns with populations over 2,000, and (4) smaller communities. Population figures are based on the municipal directory for 1951 published by the Department of Municipal Affairs of Ontario.

Analysis of Statements

Statement "A" shows plant values under the general headings specified in the standard accounting system. Other assets shown are self-explanatory. As in the consolidated balance figures the asset designated as Equity in H-E.P.C. systems is shown in contra under Reserves, and the Sinking Fund on local debentures under Surplus.

Municipal electrical utilities maintain their own accounts with their respective municipalities for such services as street lighting, waterworks, and public transportation. In conformity with the Commission's policy of service at cost, rates have been established at levels calculated to provide revenue sufficient to cover these services. Where there has been a surplus of revenue in these accounts for municipal services it has been returned in the form of cash or credit to the municipality. The municipality is, on the other hand, required to liquidate any deficit that may accrue.

Reserves include allowances for depreciation, and also the accumulated equity in the Commission's systems that has been acquired by the member municipalities. Surplus includes both operating surplus and that part of surplus that has been used either to retire debenture debt or to provide for the retirement of debenture debt through accumulated sinking fund.

Depreciation reserves now amount to 28.6 per cent of the total depreciable plant. The depreciation reserves and surplus combined amount to \$174,912,675.50, which is equal to 100.7 per cent of the total plant cost. In 74 per cent of the utilities, liquid assets and inventories exceed total liabilities so that these utilities may be considered as free of debt.

Statement "B" shows for each reporting utility the annual revenue from the various classes of customer, an itemized expense account, and the allowances set aside for depreciation and other purposes. The number of customers served in each of three classes is also shown. The item "power purchased" in this statement makes allowance for the annual adjustment made by the Commission. This adjustment is based on the difference between the interim rate and the actual cost of power supplied to the municipalities.

Of the 324 municipal electrical utilities included in the statement, 320 received from customers revenue sufficient to meet in full all operating expenses, interest and debt retirement instalments, and standard depreciation. The aggregate net surplus after all these allowances was \$8,669,811.69. Four electrical utilities were able to defray out of revenue all such charges except a portion of the standard depreciation allocation totalling \$2,471.62.

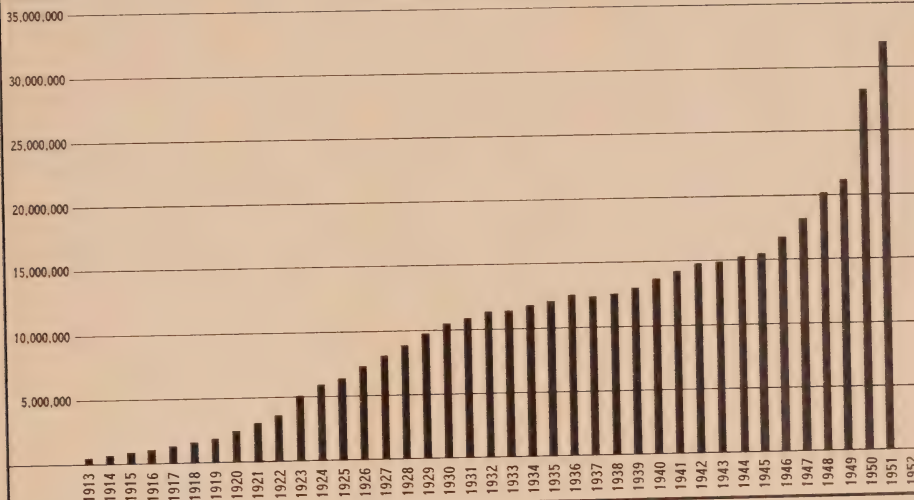
Statement "C" gives the cost per kilowatt of the power provided for and delivered to the municipalities by the Commission. It also shows the local rates to customers in the various municipalities during 1951 for domestic, commercial lighting, and power service.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

MUNICIPAL ELECTRICAL UTILITIES
FORTY YEARS REVENUES

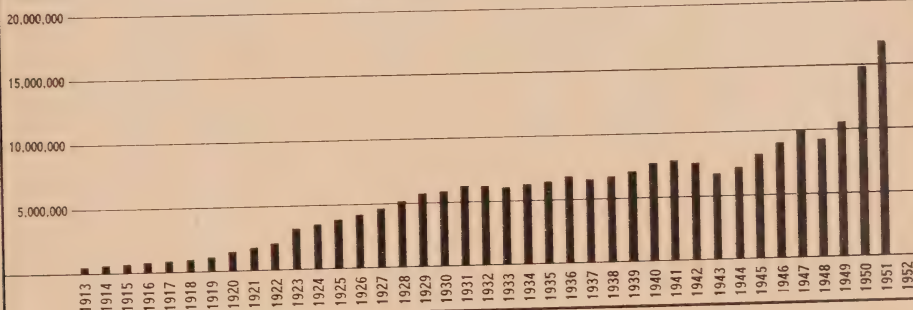
DOMESTIC SERVICE

DOLLARS



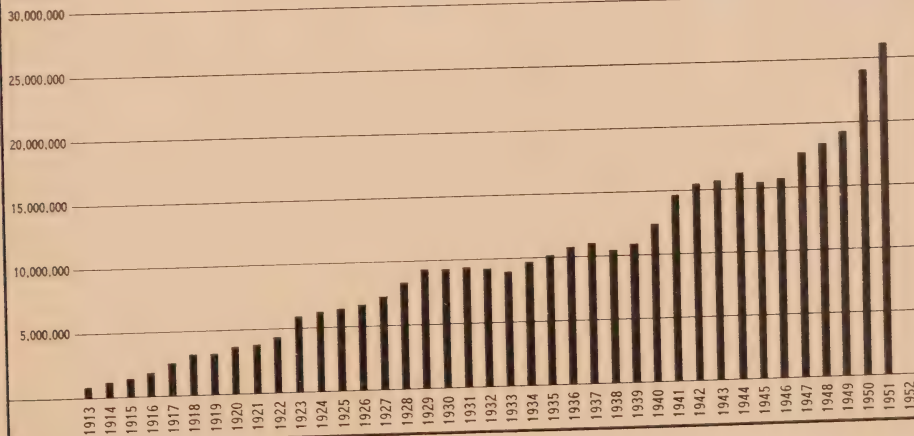
COMMERCIAL LIGHT SERVICE

DOLLARS



POWER SERVICE

DOLLARS



Statement "D" gives for each municipality the revenue, energy consumption, number of customers, average monthly bill, and average cost per kilowatt-hour both for domestic and commercial light service. For power service there are given the revenue, number of customers, and average of the monthly loads billed by the municipal utility. These figures do not include those for wholesale industrial power which is supplied by the Commission direct.

Municipal Electrical Utilities

The following summarizes the year's operation of the local electrical utilities conducted by municipalities owning their own distribution systems and operating with energy supplied by or through the Commission. These include not only electrical utilities of the cost contract municipalities of the Southern Ontario and Thunder Bay Systems, but also those of certain municipalities served through the Northern Ontario Properties.

The total revenue collected by the municipal electrical utilities in 1951 was \$82,311,680.92, as compared with \$73,523,531.58 for 1950, an increase of \$8,788,149.34 or 11.9 per cent.

The items of expenditure of the municipal electrical utilities included \$50,854,323.41 for power supplied for the most part by the Commission, \$16,460,364.97 for system operation, maintenance, and administration and \$675,630.04 for interest, \$849,300.82 for sinking fund and principal payments on debentures, and \$4,804,721.61 for depreciation and other reserves. Total expenses and reserve appropriations were \$73,644,340.85, an increase of \$5,613,407.13 or 8.2 per cent over 1950. The total net surplus for the year's operations was \$8,667,340.07.

Co-operative Systems

With regard to the local electrical utilities operating under cost contracts, the following statements summarize for each of the co-operative systems administered by the Commission the financial status and the year's operations as given in detail in this section and in Section II.

SOUTHERN ONTARIO SYSTEM

The total plant assets of the Southern Ontario System utilities amount to \$165,847,531.47. The total assets aggregate \$312,265,637.59. The reserves and surplus accumulated in connection with the local utilities amount to \$172,608,641.57, an increase of \$9,812,168.90 during the year 1951. The percentage of net debt to total assets is 13.9, an increase of 2.4 per cent, which has been chiefly due to the post-war rehabilitation program.

The total revenue of the municipal electrical utilities served by this system was \$78,341,163.26, an increase of \$8,336,058.90 or 11.9 per cent, as compared with the previous year.

After meeting all expenses in respect of operation—including interest, depreciation, and other reserves—and providing for the retirement of instalment and sinking fund debentures, the total net surplus for the year for the municipal electrical utilities served by the Southern Ontario System amounted to \$8,324,420.97 as compared with a net surplus of \$5,220,079.29 for the previous year.

THUNDER BAY SYSTEM

The total plant assets of the Thunder Bay System utilities amount to \$4,837,817.28. The total assets aggregate \$13,379,829.88. The reserves and surplus accumulated in connection with the local utilities amount to \$5,246,299.24, an increase of \$389,944.99 during the year 1951. The percentage of net debt to total assets is 14.9, a decrease of 1.3 per cent.

The total revenue of the municipal electrical utilities served by this system was \$2,416,297.47, an increase of \$167,638.93 or 7.4 per cent, as compared with the previous year. After meeting all expenses in respect of operation—including interest, depreciation, and other reserves—and providing for the retirement of instalment and sinking fund debentures, the total net surplus for the year for the municipal electrical utilities served by the Thunder Bay System amounted to \$234,192.28 as compared with a net surplus of \$191,998.80 for the previous year.

CONSOLIDATED

Year.....	1944	1945	1946
Number of municipalities included.....	298	304	304
ASSETS	\$	\$	\$
Lands and buildings.....	11,713,108.74	11,879,469.56	11,830,325.45
Substation equipment.....	25,805,344.10	26,201,620.92	26,778,943.63
Distribution system—overhead.....	26,075,416.77	26,835,864.78	27,810,938.64
Distribution system—underground..	6,385,742.19	6,539,797.63	6,848,694.50
Line transformers.....	12,698,080.21	13,360,997.73	14,247,872.95
Meters.....	11,339,479.64	11,742,720.68	12,325,105.86
Street lighting equipment—regular..	2,926,365.70	3,066,246.06	3,268,433.46
Street lighting equipment, ornamental	1,542,819.42	1,551,628.63	1,555,698.39
Miscellaneous construction expenses.	3,414,557.25	3,469,256.69	3,802,802.98
Steam or hydraulic plant.....	368,022.38	1,005,980.83	1,080,730.83
Old plant.....	820,607.24	692,517.55	658,421.95
Total plant.....	103,089,543.64	106,346,101.06	110,207,968.64
Bank and cash balance.....	1,947,073.36	1,744,827.39	3,584,075.84
Securities and investments.....	21,245,620.67	27,530,379.33	27,152,189.81
Accounts receivable.....	3,710,514.76	3,682,108.35	4,133,184.23
Inventories.....	1,622,866.57	1,735,925.21	2,193,231.80
Sinking fund on local debentures....	4,880,499.77	4,952,718.62	4,609,214.16
Equity in H-E.P.C. systems.....	69,486,548.01	75,002,351.38	80,670,336.85
Other assets.....	192,661.46	290,022.85	326,083.52
Frequency standardization expenditure in suspense.....			
Total assets.....	206,175,328.24	221,284,434.19	232,876,284.85
LIABILITIES			
Debt balance.....	11,612,359.10	10,612,595.02	9,049,583.60
Accounts payable.....	1,701,420.70	2,528,081.42	2,267,268.71
Bank overdraft.....	174,491.81	429,585.64	355,417.71
Other liabilities.....	2,584,979.26	2,707,515.21	2,636,251.52
Total liabilities.....	16,073,250.87	16,277,777.29	14,308,521.54
RESERVES			
For equity in H-E.P.C. systems.....	69,486,548.01	75,002,351.38	80,670,336.85
For depreciation.....	34,006,953.37	36,331,919.08	38,253,203.71
Other reserves.....	6,308,596.82	6,979,074.47	7,356,359.46
Total reserves.....	109,802,098.20	118,313,344.93	126,279,900.02
SURPLUS			
Debentures paid.....	45,475,788.84	47,340,018.06	48,935,858.04
Local sinking fund.....	4,880,499.77	4,952,718.62	4,609,214.16
Operating surplus.....	29,943,690.56	34,400,575.29	38,742,791.09
Net frequency standardization expense charged this year.....			
Total surplus.....	80,299,979.17	86,693,311.97	92,287,863.29
Total liabilities, reserves and surplus...	206,175,328.24	221,284,434.19	232,876,284.85
Percentage of net debt to total assets, less equity in H-E.P.C. system.....	7.4	7.0	5.6

BALANCE SHEETS

1947	1948	1949	1950	1951
304	308	315	321	324
\$	\$	\$	\$	\$
12,220,747.92	12,981,533.46	13,759,701.81	16,659,377.57	18,575,200.20
28,430,102.81	29,626,621.36	32,405,939.81	36,684,736.84	41,489,688.84
29,230,801.09	31,541,077.08	34,325,936.81	39,435,443.26	43,521,167.44
7,400,874.88	8,040,205.01	8,663,874.53	9,880,526.08	10,554,818.60
15,698,549.76	17,593,431.84	19,267,220.87	22,639,038.94	25,596,437.39
13,112,187.77	13,948,013.24	15,050,359.45	16,857,378.24	18,239,365.71
3,827,634.40	4,486,158.98	4,847,993.56	5,271,825.19	5,927,660.80
1,536,957.94	1,558,798.17	1,564,378.72		
4,242,837.80	4,290,247.58	4,608,566.91	5,234,089.19	5,961,347.63
1,080,976.81	1,457,291.81	1,478,544.77	3,322,767.89	3,313,781.93
587,479.45	573,313.04	773,261.68	162,880.55	542,988.37
117,369,150.63	126,096,691.57	136,745,778.92	156,148,063.75	173,722,456.91
2,759,333.88	3,480,104.26	2,654,186.08	2,807,734.27	3,276,778.98
27,721,988.41	26,691,542.33	24,109,961.67	19,706,944.56	16,291,592.69
4,381,276.48	3,987,098.82	4,878,682.68	6,922,076.43	7,727,032.69
3,140,379.57	3,814,953.93	4,229,137.22	5,114,209.37	7,514,369.31
4,387,586.13	1,795,295.61	569,497.99	592,491.22	613,435.37
86,574,096.81	92,889,067.86	100,051,662.98	108,475,000.19	118,269,170.96
543,728.14	541,982.60	1,089,348.62	917,535.55	787,656.78
		155,744.87	767,592.91	848,580.09
246,877,540.05	259,296,736.98	274,484,001.03	301,451,648.25	329,051,073.78
7,947,290.14	5,297,137.36	4,545,744.63	14,069,133.05	18,889,520.06
3,028,306.12	3,813,817.24	5,666,357.71	5,906,614.43	7,653,317.92
613,465.91	839,973.70	943,682.84	1,470,416.79	2,085,158.47
2,642,971.05	2,841,344.30	2,984,132.94	1,489,028.47	1,612,914.06
14,232,033.22	12,792,272.60	14,139,918.12	22,935,192.74	30,240,910.51
86,574,096.81	92,889,067.86	100,051,662.98	108,475,000.19	118,269,170.96
40,146,511.52	41,962,273.09	43,893,598.38	46,310,558.56	48,087,416.88
5,788,442.87	4,545,577.39	4,673,978.72	4,314,186.14	5,628,316.81
132,509,051.20	139,397,098.34	148,619,240.08	159,099,744.89	171,984,904.65
50,208,313.28	53,457,629.91	55,525,205.90	56,534,877.64	59,434,311.73
4,387,586.13	1,795,295.61	569,497.99	592,491.22	613,435.37
45,540,556.22	51,854,440.52	55,638,367.30	62,522,124.72	67,511,314.72
		8,228.36	232,782.96	733,803.20
100,136,455.63	107,107,366.04	111,724,842.83	119,416,710.62	126,825,258.62
246,877,540.05	259,296,736.98	274,484,001.03	301,451,648.25	329,051,073.78
5.4	5.8	7.0	11.6	14.1

CONSOLIDATED

YEAR.....	1944	1945	1946
Number of municipalities included.....	298	304	304
EARNINGS	\$	\$	\$
Domestic service.....	15,371,752.19	15,543,145.28	16,852,308.83
Commercial light service.....	7,219,403.43	8,150,923.90	8,979,037.16
Commercial power service.....	16,222,143.48	15,544,085.89	15,707,154.73
Municipal power.....	2,111,454.22	2,134,062.24	2,161,079.81
Street lighting.....	1,729,320.48	1,922,281.13	1,975,024.68
Merchandise.....	35,378.31	65,590.57	179,252.65
Miscellaneous.....	897,433.28	1,097,719.02	1,210,440.76
Total earnings.....	43,586,885.39	44,457,808.03	47,064,298.62
EXPENSES			
Power purchased.....	26,937,460.31	26,633,166.70	29,131,997.88
Substation operation.....	611,878.05	654,305.46	753,931.65
Substation maintenance.....	419,983.12	423,473.57	444,276.75
Distribution system, operation and maintenance.....	1,147,646.14	1,243,381.36	1,404,441.08
Line transformer maintenance.....	145,701.29	155,240.82	168,429.61
Meter maintenance.....	445,437.44	470,203.18	528,810.47
Consumers' premises expenses.....	513,953.14	581,603.20	699,773.37
Street lighting, operation and maintenance.....	445,945.93	487,565.20	493,443.23
Promotion of business.....	156,566.54	171,063.89	183,606.79
Billing and collecting.....	1,264,759.35	1,305,542.48	1,428,246.45
General office, salaries and expenses..	1,139,174.46	1,201,915.79	1,319,972.30
Undistributed expense.....	522,204.17	640,831.75	831,176.06
Truck operation and maintenance..	104,222.84	123,720.21	147,458.42
Interest.....	707,925.20	710,300.94	525,588.16
Sinking fund and principal payments on debentures.....	1,564,537.45	1,255,825.57	1,239,108.29
Depreciation.....	2,668,439.61	2,736,906.64	2,824,871.68
Other reserves.....	852,675.21	1,216,822.19	1,503,255.70
Total operating costs and fixed charges.....	39,648,510.25	40,011,868.95	43,628,387.89
Net surplus.....	3,938,375.14	4,445,939.08	3,435,910.73
NUMBER OF CUSTOMERS			
Domestic service.....	574,469	590,723	606,046
Commercial light service.....	77,376	81,118	85,400
Power service.....	13,792	14,339	15,115
Total.....	665,637	686,180	706,561

OPERATING REPORTS

1947	1948	1949	1950	1951
304	308	315	321	324
\$	\$	\$	\$	\$
18,172,574.54	19,506,499.27	21,137,834.75	28,066,402.91	31,977,317.76
9,819,043.11	9,766,500.29	10,444,393.84	14,690,733.78	17,033,595.94
17,613,525.22	18,235,664.95	19,178,070.91	23,873,159.20	26,172,943.55
2,216,812.71	2,343,112.69	2,475,539.80	2,907,974.03	3,011,056.35
2,057,215.86	2,153,034.35	2,219,551.02	2,552,755.74	2,769,300.03
233,117.94	221,544.94	216,734.17	216,549.51	100,096.18
1,267,485.38	1,268,351.70	1,231,076.24	1,215,956.41	1,247,371.11
51,379,774.76	53,494,708.19	56,903,200.73	73,523,531.58	82,311,680.92
31,760,128.32	32,432,823.73	36,225,068.75	46,400,040.72	50,854,323.41
855,965.41	1,019,515.46	1,126,138.22	1,441,553.66	1,648,120.74
475,837.06	595,059.49	626,041.76	679,136.10	758,392.52
1,628,081.77	1,967,371.30	2,110,892.72	2,682,034.57	3,070,534.44
219,164.00	249,212.31	279,383.13	335,739.15	423,156.46
607,758.38	699,593.39	751,382.32	762,974.01	849,951.63
822,675.89	1,005,146.07	1,061,668.85	1,243,611.94	1,430,859.05
547,556.40	602,995.88	688,584.31	705,830.91	755,502.07
231,488.57	343,395.13	282,618.04	277,190.88	319,888.95
1,643,780.22	1,872,644.99	2,077,074.94	2,382,607.11	2,776,376.16
1,521,688.93	1,814,028.57	1,961,727.80	2,162,662.43	2,487,764.68
840,075.97	803,047.22	833,337.54	1,331,333.41	1,699,441.87
202,997.29	243,560.50	269,151.54	302,310.53	240,376.40
423,041.93	339,213.78	305,084.60	497,138.36	675,630.04
992,793.11	903,443.37	842,182.95	980,917.96	849,300.82
3,002,877.86	3,278,262.63	3,631,483.76	4,076,473.95	4,717,496.55
1,478,990.80	1,051,522.24	634,690.02	1,769,378.03	87,225.06
47,254,901.91	49,220,836.06	53,706,511.25	68,030,933.72	73,644,340.85
4,124,872.85	4,273,872.13	3,196,689.48	5,492,597.86	8,667,340.07
625,705	649,220	684,417	745,422	778,517
87,937	91,382	94,881	104,122	107,416
15,867	16,439	17,184	18,372	18,947
729,509	757,041	796,482	867,916	904,880

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM

Municipality	Acton	Agincourt	Ailsa Craig	Alexandria	Alliston
Population	3,037	1,000	497	2,209	2,038
ASSETS	\$	\$	\$	\$	\$
Lands and buildings	1,627.38			19,740.84	
Substation equipment	2,318.36				
Distribution system—overhead	51,629.62	23,170.17	11,530.15	33,665.60	45,438.50
Distribution system—underground					
Line transformers	32,040.57	17,854.53	6,573.13	22,307.05	19,693.49
Meters	20,399.14	8,213.83	4,234.83	14,488.96	18,134.24
Street light equipment, regular	8,056.99	4,750.45	535.35	4,227.95	6,165.77
Street light equipment, ornamental					
Miscellaneous construction expense	4,245.87	150.60	7.65	2,160.34	1,868.20
Steam or hydraulic plant					
Old plant					7,846.49
Total plant	120,317.93	54,139.58	22,881.11	96,590.74	99,146.69
Bank and cash balance	539.58	2,328.06	89.91	2,028.90	4,589.18
Securities and investments	7,000.00	2,500.00	2,500.00	33,000.00	22,000.00
Accounts receivable	641.67	1,659.77	734.62	3,232.70	1,221.80
Inventories	1,484.64				5,035.91
Sinking fund on local debentures					
Equity in H-E.P.C. systems	162,134.07	26,378.27	29,564.75	59,192.94	53,457.53
Other assets	341.06				440.00
Frequency standardization expenditure in suspense	171.97	202.44	246.10		
Total assets	292,630.92	87,208.12	56,016.49	194,045.28	185,891.11
LIABILITIES					
Debenture balance					
Accounts payable	1,082.79	4,204.48	302.79	736.20	149.20
Bank overdraft					
Other liabilities	2,432.85	240.00	125.00	2,164.76	361.50
Total liabilities	3,515.64	4,444.48	427.79	2,900.96	510.70
RESERVES					
For equity in H-E.P.C. systems	162,134.07	26,378.27	29,564.75	59,192.94	53,457.53
For depreciation	15,708.02	7,023.37	4,041.06	18,141.91	15,596.32
Other reserves		17.23			63.51
Total reserves	177,842.09	33,418.87	33,605.81	77,334.85	69,117.36
SURPLUS					
Debentures paid	14,500.00	8,072.65	6,883.38	38,299.23	37,736.04
Local sinking fund					
Operating surplus	96,773.19	43,383.13	15,099.51	75,510.24	78,527.01
Net frequency standardization expense charged this year		2,111.01			
Total surplus	111,273.19	49,344.77	21,982.89	113,809.47	116,263.05
Total liabilities, reserves, and surplus	292,630.92	87,208.12	56,016.49	194,045.28	185,891.11
Percentage of net debt to total assets, less equity in H-E.P.C. systems	2.7	7.3	1.62	2.2	0.4

Statement A includes 324 municipalities in group 1, see page 36.

Utilities as at December 31, 1951

Almonte	Alvinston	Amherstburg	Ancaster Twp. (V.A.)	Apple Hill	Arkona	Arnprior
2,394	682	3,594		464	338	4,495
\$	\$	\$	\$	\$	\$	\$
10,694.35	2,058.60		354.71	169.06		8,241.00
24,581.90						
42,237.54	20,220.60	61,730.70	58,690.90	7,934.80	12,344.01	46,838.81
		657.77				
25,237.67	6,047.08	52,921.13	28,510.57	2,887.91	5,720.97	40,047.33
16,419.74	5,648.62	25,562.19	14,273.58	1,795.85	3,768.95	24,349.55
9,139.20	1,473.27	3,282.73	1,863.96	421.12	1,378.88	33,670.94
1,249.89	227.76	3,706.29	520.86	7.85	54.95	319.85
110,647.67						
240,207.96	35,675.93	147,860.81	104,214.58	13,216.59	23,267.76	153,467.48
10,700.36	1,721.46	213.57	477.99	8,939.81		4,997.65
32,000.00	6,000.00	17,350.00		2,500.00	1,500.00	31,000.00
2,114.33	214.35	5,729.06	3,212.73	719.79	114.36	1,295.47
6,849.51	3,113.97	13,892.90				11,164.59
8,840.63	29,805.75	124,249.28	40,950.71	6,678.04	13,692.60	42,069.05
		1.88	123.30			
			6.00		2,958.99	
300,712.79	76,531.46	309,297.50	148,985.31	32,054.23	41,533.71	243,994.24
10,841.13			28,445.25			
1,939.67	623.91	3,055.12	7,786.31	9,216.55	435.87	16,486.77
					19.79	
674.38	55.00	830.11	272.25			3,106.23
13,455.18	678.91	3,885.23	36,503.81	9,216.55	455.66	19,593.00
8,840.63	29,805.75	124,249.28	40,950.71	6,678.04	13,692.60	42,069.05
55,479.73	12,872.31	45,180.09	8,064.66	1,576.33	6,783.30	9,034.87
1,490.34	59.50	413.56	48.02			
65,810.70	42,737.56	169,842.93	49,063.39	8,254.37	20,475.90	51,103.92
61,158.87	23,529.24	32,053.60	15,665.03	5,080.12	13,112.83	55,469.13
160,288.04	11,824.20	103,515.74	47,753.08	9,503.19	7,489.32	117,828.19
	2,238.45					
221,446.91	33,114.99	135,569.34	63,418.11	14,583.31	20,602.15	173,297.32
300,712.79	76,531.46	309,297.50	148,985.31	32,054.23	41,533.71	243,994.24
6.7	1.5	2.1	33.8	36.3	1.6	9.7

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Arthur	Athens	Aurora	Aylmer	Ayr
Population	1,060	841	3,363	3,557	872
ASSETS	\$	\$	\$	\$	\$
Lands and buildings			23,294.81	11,147.41	125.00
Substation equipment			1,491.05	5,125.60	
Distribution system—overhead.....	23,629.59	19,112.72	55,794.23	49,130.32	15,447.50
Distribution system—underground.....					
Line transformers	15,373.59	6,479.70	39,971.19	49,489.26	9,822.07
Meters	7,883.64	4,932.98	26,678.48	24,490.21	6,572.64
Street light equipment, regular	2,405.09	1,386.97	8,113.97	11,803.60	1,170.78
Street light equipment, ornamental					
Miscellaneous construction expense	1,188.50	57.90	19,555.15	6,169.66	161.57
Steam or hydraulic plant					
Old plant	1,086.62				
Total plant	51,567.03	31,970.27	174,898.88	157,356.06	33,299.76
Bank and cash balance	178.70	9,522.25	30.00	4,154.88	3,964.18
Securities and investments	4,000.00	9,000.00			10,743.66
Accounts receivable	98.31	1,917.09	314.54	3,047.36	367.48
Inventories	108.76			340.00	
Sinking fund on local debentures					
Equity in H-E.P.C. systems	38,970.51	14,795.59	34,931.39	101,623.17	32,485.18
Other assets			140.00	40.00	
Frequency standardization expenditure in suspense					
Total assets	94,923.31	67,205.20	210,314.81	266,561.47	80,860.26
LIABILITIES					
Debenture balance	1,320.73				
Accounts payable	490.98	480.75	27,003.35	1,625.66	485.42
Bank overdraft			515.88		
Other liabilities	307.60		1,302.41	1,507.66	83.64
Total liabilities	2,119.31	480.75	28,821.64	3,133.32	569.06
RESERVES					
For equity in H-E.P.C. systems	38,970.51	14,795.59	34,931.39	101,623.17	32,485.18
For depreciation	14,238.33	3,852.31	30,310.02	36,293.89	9,135.17
Other reserves		206.06		622.24	
Total reserves	53,208.84	18,853.96	65,241.41	138,539.30	41,620.35
SURPLUS					
Debentures paid	23,679.27	12,988.39		38,701.92	17,503.38
Local sinking fund					
Operating surplus	15,915.89	34,882.10	123,598.10	86,186.93	21,167.47
Net frequency standardization expense charged this year			7,346.34		
Total surplus	39,595.16	47,870.49	116,251.76	124,888.85	38,670.85
Total liabilities, reserves, and surplus	94,923.31	67,205.20	210,314.81	266,561.47	80,860.26
Percentage of net debt to total assets less equity in H-E.P.C. systems	3.8	0.9	16.4	1.9	1.2

Utilities as at December 31, 1951

Baden 700	Bancroft 1,308	Barrie 13,318	Barry's Bay 1,294	Bath 429	Beachville 660	Beamsville 1,728
\$ 882.40	\$	\$	\$	\$	\$	\$
13,483.78	19,880.59	132,632.21 115,900.67 143,024.05	11,339.08	12,604.18	21,463.45	25,646.13
7,446.54	9,272.09	66,582.89 118,090.81	6,937.72	4,234.27	9,750.83	16,512.99
5,859.13	7,610.95	98,533.44	4,528.60	2,028.88	5,570.90	11,751.58
870.96	2,294.67	15,786.22	1,625.32	878.71	875.09	3,725.64
148.18	581.48	919.03	105.70	727.38	2,196.47	
	108,270.93		2,500.00			
28,690.99	147,910.71	691,469.32	27,036.42	20,473.42	40,032.87	57,636.34
10,765.96	1,256.84	100.00	7,296.22	2,649.81		2,252.18
6,500.00					21,500.00	22,000.00
84.90	3,795.18	48,308.36	301.46	96.91	1,278.51	772.68
	2,129.34	27,719.85				
66,343.66	1,266.40	355,392.33 515.51	333.34	5,655.15	86,919.03	21,572.98
						165.00
112,385.51	156,358.47	1,123,505.37	34,967.44	28,875.29	149,730.41	104,399.18
656.04	39,375.00 2,394.00	334.93 18,747.87	4,743.69 1,848.73	594.88 2,175.22	52.97 1,567.80	1,009.10
10.00	194.50	7,394.70		218.00		814.90
666.04	41,963.50	26,477.50	6,592.42	2,988.10	1,620.77	1,824.00
66,343.66	1,266.40	355,392.33	333.34	5,655.15	86,919.03	21,572.98
5,336.02	26,399.57	176,741.48 400.00	135.31	4,393.15	11,177.37	14,705.63
71,679.68	27,665.97	532,533.81	468.65	10,048.30	98,096.40	36,278.61
5,000.00	28,125.00	65,365.68	5,256.31	6,905.12	5,536.66	37,500.00
35,039.79	58,604.00	499,128.38	22,650.06	8,933.77	44,476.58	28,796.57
40,039.79	86,729.00	564,494.06	27,906.37	15,838.89	50,013.24	66,296.57
112,385.51	156,358.47	1,123,505.37	34,967.44	28,875.29	149,730.41	104,399.18
1.4	27.1	3.4	13.3	1.3	2.6	2.2

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Beaverton	Beeton	Belle River	Belleville	Blenheim
Population.....	967	579	1,411	19,423	2,436
ASSETS	\$	\$	\$	\$	\$
Lands and buildings.....	499.50		204.20	45,415.35	14,874.79
Substation equipment.....				185,439.72	1,264.64
Distribution system—overhead.....	30,411.05	15,375.77	30,159.68	240,400.72	61,710.84
Distribution system—underground.....					
Line transformers.....	13,739.97	4,197.10	11,317.69	104,370.99	32,777.21
Meters.....	10,581.95	4,289.42	9,200.48	126,196.12	22,719.46
Street light equipment, regular.....	2,127.34	3,817.30	3,188.50	51,265.03	5,684.35
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	270.91	323.69	365.17	19,703.15	311.13
Steam or hydraulic plant.....					
Old plant.....					
Total plant.....	57,630.72	28,003.28	54,435.72	772,791.08	139,342.42
Bank and cash balance.....	3,300.08	618.33	969.55	57,280.44	25.00
Securities and investments.....	7,200.00	4,000.00	2,000.00	85,000.00	4,000.00
Accounts receivable.....	215.86	73.29	1,606.77	33,907.60	597.11
Inventories.....	22.16			31,019.24	2,615.97
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	41,237.39	30,015.03	24,794.43	444,751.97	80,293.45
Other assets.....	538.61	197.33	1.92		367.59
Frequency standardization expenditure in suspense.....			70.00		
Total assets.....	110,144.82	62,907.26	83,878.39	1,424,750.33	227,241.54
LIABILITIES					
Debenture balance.....					
Accounts payable.....	254.29	31.05	3,495.84	43,034.70	620.56
Bank overdraft.....					12,614.62
Other liabilities.....	483.32	160.00	355.00	19,968.91	295.00
Total liabilities.....	737.61	191.05	3,850.84	63,003.61	13,530.18
RESERVES					
For equity in H-E.P.C. systems.....	41,237.39	30,015.03	24,794.43	444,751.97	80,293.45
For depreciation.....	20,349.76	6,065.91	15,046.12	134,326.34	27,450.71
Other reserves.....	400.00	86.50		4,679.63	217.77
Total reserves.....	61,987.15	36,167.44	39,840.55	583,757.94	107,961.93
SURPLUS					
Debentures paid.....	12,839.34	13,610.31	8,500.00	174,997.19	14,000.00
Local sinking fund.....					
Operating surplus.....	34,580.72	12,938.46	31,687.00	602,991.59	91,749.43
Net frequency standardization expense charged this year.....					
Total surplus.....	47,420.06	26,548.77	40,187.00	777,988.78	105,749.43
Total liabilities, reserves, and surplus.....	110,144.82	62,907.26	83,878.39	1,424,750.33	227,241.54
Percentage of net debt to total assets, less equity in H-E.P.C. systems.....	1.1	0.6	6.5	6.4	9.2

Utilities as at December 31, 1951

Bloomfield 653	Blyth 660	Bobcaygeon 1,139	Bolton 852	Bothwell 701	Bowmanville 5,318	Bradford 1,576
\$	\$	\$	\$	\$	\$	\$
12,185.02	15,763.37	740.00 31,964.72	19,012.40	11,413.45	61,542.26 137,417.41 79,962.90	5,710.06 388.50 39,439.23
3,890.71	8,754.96	10,996.77	15,050.64	9,474.55	28,735.65	22,610.86
4,601.85	4,937.05	11,532.55	7,594.77	5,234.53	36,640.07	14,975.17
3,092.05	1,554.68	6,458.95	1,092.96	4,764.50	10,772.16	1,522.77
	288.76	993.41	1,390.90	125.77	12,402.55	1,418.96
		75,000.00				
23,769.63	31,298.82	137,686.40	44,141.67	31,012.80	367,473.00	86,065.55
3,481.40	5,048.67	1,714.72	1,457.43	259.35	14,269.74	18,936.90
18,000.00	8,000.00		7,000.00	8,000.00	65,000.00	2,500.00
183.95	464.64	2,640.84	958.21	400.39	6,019.95	218.79
		2,782.62	25.00		12,442.99	7,552.10
14,692.43	22,029.71	3,479.39	35,844.39	32,799.43	173,555.59	39,704.52
		53.12			23.09	
	4,630.41					
60,127.41	71,472.25	148,357.09	89,426.70	72,471.97	638,784.36	154,977.86
		28,706.77				
397.91	4,932.73	117.72	2,290.63	683.62	344.41	1,354.17
238.00	163.79		231.39	100.95	1,889.47	1,117.44
635.91	5,096.52	28,824.49	2,522.02	784.57	2,233.88	2,471.61
14,692.43	22,029.71	3,479.39	35,844.39	32,799.43	173,555.59	39,704.52
11,164.57	8,541.47	39,304.75	7,571.89	9,252.47	93,775.09	18,648.57
			70.60			29.88
25,857.00	30,571.18	42,784.14	43,486.88	42,051.90	267,330.68	58,382.97
9,796.58	16,032.52	61,293.23	12,500.00	5,534.19	71,000.00	23,351.06
23,837.92	19,772.03	15,455.23	34,112.45	24,101.31	298,219.80	70,772.22
			3,194.65			
33,634.50	35,804.55	76,748.46	43,417.80	29,635.50	369,219.80	94,123.28
60,127.41	71,472.25	148,357.09	89,426.70	72,471.97	638,784.36	154,977.86
1.4	10.3	19.9	4.7	2.0	0.5	2.1

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Braeside	Brampton	Brantford	Brantford Twp. (V.A.)	Brechin
Population	451	8,301	36,602	16,318	270
ASSETS	\$	\$	\$	\$	\$
Lands and buildings		6,175.76	185,241.01	4,867.69	
Substation equipment		58,631.34	335,776.13	95,411.16	
Distribution system—overhead	5,248.74	94,606.03	391,479.50	212,804.82	1,724.65
Distribution system—underground			7,029.67		
Line transformers	2,499.28	93,924.81	346,625.97	92,966.79	2,432.89
Meters	1,999.12	56,382.37	248,327.72	70,897.20	1,226.48
Street light equipment, regular	87.20	15,720.92	61,119.52	16,149.19	197.38
Street light equipment, ornamental					
Miscellaneous construction expense		2,930.64	52,211.44	11,651.36	
Steam or hydraulic plant					
Old plant			6,000.00		
Total plant	9,834.34	328,371.87	1,633,810.96	504,748.21	5,581.40
Bank and cash balance	5,573.29	1,657.51	1,006.33	7,317.63	2,637.17
Securities and investments		51,500.00	81,000.00		7,000.00
Accounts receivable	1,415.43	2,518.79	68,456.84	2,979.31	53.10
Inventories		11,121.43	101,177.84	9,609.29	24.42
Sinking fund on local debentures					
Equity in H-E.P.C. systems	3,320.31	358,546.98	2,019,026.96	102,852.98	13,846.88
Other assets			6,629.31	397.70	
Frequency standardization expenditure in suspense		445.74	1,785.00	2,235.00	
Total assets	20,143.37	754,162.32	3,912,893.24	630,140.12	29,142.97
LIABILITIES					
Debenture balance	4,408.50			161,489.21	
Accounts payable	961.31	2,779.36	6,877.94	21,192.14	146.25
Bank overdraft		3,866.98	41,728.53		
Other liabilities	135.00	2,810.00	33,481.33	2,460.56	30.00
Total liabilities	5,504.81	9,456.34	82,087.80	185,141.91	176.25
RESERVES					
For equity in H-E.P.C. systems	3,320.31	358,546.98	2,019,026.96	102,852.98	13,846.88
For depreciation	205.69	96,667.97	523,311.99	83,965.54	1,251.32
Other reserves		1,377.51	8,789.29	62.00	8.49
Total reserves	3,526.00	456,592.46	2,551,128.24	186,880.52	15,106.69
SURPLUS					
Debentures paid	1,591.50	69,050.64	530,000.00	85,636.45	2,664.00
Local sinking fund					
Operating surplus	9,521.06	219,062.88	749,677.20	172,481.24	11,196.03
Net frequency standardization expense charged this year					
Total surplus	11,112.56	288,113.52	1,279,677.20	258,117.69	13,860.03
Total liabilities, reserves, and surplus	20,143.37	754,162.32	3,912,893.24	630,140.12	29,142.97
Percentage of net debt to total assets, less equity in H-E.P.C. systems	32.7	2.4	4.3	35.1	1.2

Utilities as at December 31, 1951

Bridgeport 1,138	Brigden 450	Brighton 2,027	Brockville 12,030	Brussels 817	Burford 884	Burgessville 194
\$	\$	\$	\$	\$	\$	\$
19,938.73	1,482.03 12,334.40	600.00 34,916.42	70,673.24 206,545.30 111,612.19	802.00 25,790.42	15,427.66	4,895.43
11,208.40	4,150.39	12,911.82	91,677.14	17,015.01	9,487.52	4,293.08
7,116.91	4,908.11	12,975.89	73,149.21	6,692.95	7,547.74	1,678.22
1,953.10	509.23	1,363.30	51,589.09	1,765.79	1,251.02	261.02
	68.80	718.69	4,787.67	184.67	300.78	25.00
40,217.14	23,452.96	63,486.12	610,033.84	51,448.84	34,816.72	11,152.75
2,171.86	2,834.81	25.00	3,299.85	2,234.67	63.70	3,494.21
	5,500.00	10,000.00	16,500.00		4,000.00	2,800.00
1,604.82	171.19	3,319.57	4,605.32	211.41	977.63	309.48
		6,882.07	8,668.00		275.35	
16,586.96	23,316.14	31,590.94	416,128.26 422.81	28,490.58 10.00	30,366.54 30.00	11,037.26
				4,653.14		18.00
60,580.78	55,275.10	115,303.70	1,059,658.08	87,048.64	70,529.94	28,811.70
641.92	139.09	60.52	4,670.12	5,512.67	302.60	11.92
195.00	40.00	2,360.34 1,297.39	6,728.19	95.55	116.30	10.00
836.92	179.09	3,718.25	11,398.31	5,608.22	418.90	21.92
16,586.96	23,316.14	31,590.94	416,128.26	28,490.58	30,366.54	11,037.26
11,968.68	5,861.80 97.24	9,324.10	141,252.71 13,294.27	5,158.39	8,193.39	5,153.72
28,555.64	29,275.18	40,915.04	570,675.24	33,648.97	38,559.93	16,190.98
12,368.03	8,000.00	25,000.00	174,869.92	21,000.00	9,000.00	3,500.00
18,820.19	19,045.21	45,670.41	302,714.61	26,791.45	22,551.11	9,098.80
	1,224.38					
31,188.22	25,820.83	70,670.41	477,584.53	47,791.45	31,551.11	12,598.80
60,580.78	55,275.10	115,303.70	1,059,658.08	87,048.64	70,529.94	28,811.70
1.9	0.6	4.4	1.8	9.6	1.0	0.1

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Burks Falls 852	Burlington	Caledonia	Campbell- ville 260	Canning- ton 874
Population		6,314	1,685		
ASSETS	\$	\$	\$	\$	\$
Lands and buildings		24,153.58	656.01		
Substation equipment					
Distribution system—overhead	29,652.51	160,151.77	31,796.65	3,567.17	18,466.14
Distribution system—underground					
Line transformers	10,471.87	77,091.16	20,092.37	2,866.81	9,543.30
Meters	3,451.05	46,387.82	12,473.02	1,326.70	7,476.15
Street light equipment, regular	2,825.75	9,794.53	4,165.87	744.58	3,626.62
Street light equipment, ornamental					
Miscellaneous construction expense	1,202.57	15,164.61	2,603.87	6.82	
Steam or hydraulic plant					
Old plant	5,214.48				
Total plant	52,818.23	332,743.47	71,787.79	8,512.08	39,112.21
Bank and cash balance	577.82	67,523.10	1,510.24	367.46	795.07
Securities and investments		2,600.00	200.00	3,600.00	9,000.00
Accounts receivable	570.81	5,887.10	823.53	34.04	376.87
Inventories	59.50	24,218.30	2,566.55		674.26
Sinking fund on local debentures					
Equity in H-E.P.C. systems	291.41	30,205.55	48,179.43	6,358.79	31,430.51
Other assets		14.77	140.00		849.09
Frequency standardization expenditure in suspense		390.00		43.00	
Total assets	54,317.77	463,582.29	125,207.54	18,915.37	82,238.01
LIABILITIES					
Debenture balance	31,308.76	191,523.21	3,500.00		
Accounts payable	7,547.27	10,675.42	4,312.33	420.04	165.96
Bank overdraft					
Other liabilities		6,629.77	505.69		30.00
Total liabilities	38,856.03	208,828.40	8,318.02	420.04	195.96
RESERVES					
For equity in H-E.P.C. systems	291.41	30,205.55	48,179.43	6,358.79	31,430.51
For depreciation	1,571.32	28,287.06	10,292.72	2,587.28	13,459.92
Other reserves					76.05
Total reserves	1,862.73	58,492.61	58,472.15	8,946.07	44,966.48
SURPLUS					
Debentures paid	3,691.24	68,976.79	6,124.00	5,447.77	14,532.42
Local sinking fund					
Operating surplus	9,907.77	127,284.49	52,293.37	4,101.49	22,543.15
Net frequency standardization expense charged this year					
Total surplus	13,599.01	196,261.28	58,417.37	9,549.26	37,075.57
Total liabilities, reserves, and surplus	54,317.77	463,582.29	125,207.54	18,915.37	82,238.01
Percentage of net debt to total assets less equity in H-E.P.C. systems	71.9	48.2	10.8	3.4	0.4

Utilities as at December 31, 1951

Cardinal 1,811	Carleton Place 4,685	Cayuga 716	Chatham 21,473	Chatsworth 408	Chesley 1,715	Chesterville 1,178
\$	\$	\$	\$	\$	\$	\$
13,390.32	16,415.55	314,802.56	239,448.54	364.89	6,000.00	3,360.25
18,533.50	57,883.51	27,671.14	321,229.28	7,155.20	2,305.58	14,218.78
8,438.00	24,271.04	10,954.96	192,239.10	4,146.88	36,933.46	9,111.83
6,704.64	28,174.15	6,901.68	196,029.53	4,146.88	19,636.28	9,111.83
1,184.04	7,721.81	2,439.69	129,206.97	3,573.43	13,851.61	7,613.40
46.08	595.64	1,429.12	45,320.19	2,709.52	4,064.04	2,937.97
34,906.26	148,452.02	49,396.59	73,370.15	51.86	654.12	719.11
1,299.71	1,794.61	4,337.45	50.00	2,654.91	5,408.82	4,535.50
1,500.00	39,500.00	18,200.00	50,000.00	1,000.00	4,000.00	12,000.00
542.15	1,391.36	590.66	79,761.69	103.20	141.36	358.34
18,456.60	5,680.77	245.53	74,600.66	588.79	588.79	588.79
18,456.60	170,927.60	22,348.52	848,237.72	10,447.63	75,469.73	52,374.11
		55.00	232.14			1,143.03
			3,629.47			
56,704.72	367,746.36	95,173.75	2,568,158.00	32,207.52	169,053.79	108,372.32
16.08		1,014.25	446,075.85	21.20	463.04	132.87
	2,051.06	460.43	558.23	115.23		45.00
16.08	2,051.06	1,474.68	32,872.64	136.43	463.04	177.87
18,456.60	170,927.60	22,348.52	9,226.35	10,447.63	75,469.73	52,374.11
4,525.88	30,965.74	10,873.92	848,237.72	4,229.62	22,543.34	11,312.21
26.65	800.49	149.06	288,149.04			
23,009.13	202,693.83	33,371.50	51,205.73	14,677.25	98,013.07	63,686.32
11,014.20	58,116.83	20,000.00	1,187,592.49	5,014.10	24,410.34	5,889.32
22,665.31	104,884.64	40,327.57	423,924.15	12,379.74	46,167.34	38,618.81
33,679.51	163,001.47	60,327.57	467,908.29	17,393.84	70,577.68	44,508.13
56,704.72	367,746.36	95,173.75	891,832.44	32,207.52	169,053.79	108,372.32
0.0	1.0	2.0	28.4	0.6	0.5	0.3

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Chippawa	Clifford	Clinton	Cobden	Cobourg
Population	1,676	485	2,495	796	7,818
ASSETS	\$	\$	\$	\$	\$
Lands and buildings	1,434.46		10,164.94		32,227.73
Substation equipment			22,938.90		1,668.35
Distribution system—overhead	24,961.72	11,812.35	35,438.73	9,385.36	147,978.83
Distribution system—underground					
Line transformers	12,214.62	5,727.43	26,467.29	4,644.96	54,378.70
Meters	9,990.12	3,805.52	16,539.94	4,978.23	53,152.51
Street light equipment, regular	8,367.79	2,465.58	5,854.24	2,429.52	40,340.11
Street light equipment, ornamental					
Miscellaneous construction expense	864.81	1,134.87	5,035.35	64.53	11,868.94
Steam or hydraulic plant					
Old plant					
Total plant	57,833.52	24,945.75	122,439.39	21,502.60	341,615.17
Bank and cash balance	28.70	3,624.87	14,298.47	5,259.64	
Securities and investments	4,500.00	1,000.00	4,500.00		20,000.00
Accounts receivable	621.89	26.65	964.48	2,266.66	15,782.45
Inventories	480.74		4,067.37		17,696.19
Sinking fund on local debentures					
Equity in H-E.P.C. systems	35,425.87	16,579.73	99,314.13	7,984.12	137,483.00
Other assets	32	17.00	20.00	4,242.19	22.89
Frequency standardization expenditure in suspense			25,613.01		
Total assets	98,891.04	46,194.00	271,216.85	41,255.21	532,599.70
LIABILITIES					
Debenture balance		1,485.10	30,000.00		7,148.50
Accounts payable		1,943.87	6,209.51		1,087.69
Bank overdraft					2,036.23
Other liabilities	940.00	5.00	1,580.77	118.50	5,725.59
Total liabilities	940.00	3,433.97	37,790.28	118.50	15,998.01
RESERVES					
For equity in H-E.P.C. systems	35,425.87	16,579.73	99,314.13	7,984.12	137,483.00
For depreciation	15,091.10	6,834.07	30,096.67	1,377.26	84,614.86
Other reserves			433.09		
Total reserves	50,516.97	23,413.80	129,843.89	9,361.38	222,097.86
SURPLUS					
Debentures paid	13,350.00	6,514.90	44,500.00	4,949.42	98,845.00
Local sinking fund					
Operating surplus	34,084.07	12,831.33	59,082.68	26,825.91	195,658.83
Net frequency standardization expense charged this year					
Total surplus	47,434.07	19,346.23	103,582.68	31,775.33	294,503.83
Total liabilities, reserves, and surplus	98,891.04	46,194.00	271,216.85	41,255.21	532,599.70
Percentage of net debt to total assets, less equity in H-E.P.C. systems	1.5	11.6	22.0	0.3	4.0

Utilities as at December 31, 1951

Colborne 1,127	Coldwater 620	Collingwood 7,367	Comber 545	Cookstown 421	Cottam 520	Courtright 545
\$	\$	\$	\$	\$	\$	\$
15,850.35	275.00	20,235.07	498.22	70.00	475.63	9,290.41
5,778.32	8,561.48	23,104.35	11,547.44	4,704.88	6,202.40	3,128.15
6,492.62	5,726.28	46,426.47	4,587.34	4,168.08	3,903.09	2,564.82
3,342.44	3,850.48	23,735.25	1,106.90	1,543.85	781.16	1,362.24
4,597.93	190.77	7,058.90	421.47	26.80	176.13	
36,061.66	35,293.94	265,986.02	33,090.05	30,874.17	24,551.16	16,345.62
1,066.20	4,145.09	10,972.80	2,025.25	4,083.59	5,282.29	1,166.10
5,000.00	8,500.00	15,000.00			3,000.00	
2,772.88	1,770.28	2,444.33	16.65	67.76	76.12	216.40
5,937.81		10,081.42	208.70			
14,078.96	28,051.83	286,183.48	35,052.51	11,748.83	10,611.57	11,765.09
	300.00	3,179.59				
					6.00	
64,917.51	78,061.14	593,847.64	70,393.16	46,774.35	43,527.14	29,493.21
			5,000.00			
	347.42	896.37		570.55	414.26	844.29
420.00	125.37	4,468.46	108.23	119.25	105.71	210.00
420.00	472.79	5,364.83	5,108.23	689.80	519.97	1,054.29
14,078.96	28,051.83	286,183.48	35,052.51	11,748.83	10,611.57	11,765.09
5,676.37	9,084.96	62,515.10	5,191.45	2,387.60	7,590.48	664.41
	46.00	150.00	25.38		37.95	5.24
19,755.33	37,182.79	348,848.58	40,269.34	14,136.43	18,240.00	12,434.74
12,194.59	6,867.47	38,183.42	7,700.00	12,000.85	9,000.22	8,138.35
32,547.59	33,538.09	201,450.81	17,315.59	19,947.27	15,766.95	7,865.83
44,742.18	40,405.56	239,634.23	25,015.59	31,948.12	24,767.17	16,004.18
64,917.51	78,061.14	593,847.64	70,393.16	46,774.35	43,527.14	29,493.21
0.8	0.9	1.7	14.5	2.0	1.3	5.9

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Creemore	Dashwood	Delaware	Delhi	Deseronto
Population	738	399	347	2,557	1,517
ASSETS	\$	\$	\$	\$	\$
Lands and buildings				2,560.58	1,097.41
Substation equipment					161.18
Distribution system—overhead.	12,340.41	4,928.75	8,108.76	51,707.29	21,641.25
Distribution system—underground.					
Line transformers	7,416.77	6,500.17	1,970.47	30,254.62	17,238.44
Meters	5,833.29	3,214.03	2,220.64	24,082.08	9,507.94
Street light equipment, regular	768.00	364.52	325.93	7,494.12	2,483.52
Street light equipment, ornamental			36.35	7,368.89	2,124.90
Miscellaneous construction expense					
Steam or hydraulic plant				28,518.74	
Old plant					
Total plant	26,358.47	15,007.47	12,662.15	151,986.32	54,254.64
Bank and cash balance	4,628.84	1,203.09	734.26	16,176.57	2,164.56
Securities and investments	5,000.00			18,500.00	6,000.00
Accounts receivable	226.18	100.01	507.28	157.05	4,473.45
Inventories	60.25		1,576.33	11,791.56	8,401.37
Sinking fund on local debentures					
Equity in H-E.P.C. systems	23,984.17	18,030.85	7,854.52	27,367.86	19,647.81
Other assets	181.26			73.17	
Frequency standardization expenditure in suspense		2,522.74		5.35	
Total assets	60,439.17	36,864.16	23,334.54	226,057.88	94,941.83
LIABILITIES					
Debenture balance				40,348.77	
Accounts payable	1,336.61	645.70	291.03		317.54
Bank overdraft					
Other liabilities	204.00		20.00	2,189.29	481.61
Total liabilities	1,540.61	645.70	311.03	42,538.06	799.15
RESERVES					
For equity in H-E.P.C. systems	23,984.17	18,030.85	7,854.52	27,367.86	19,647.81
For depreciation	4,677.03	3,143.51	556.55	23,427.23	15,829.13
Other reserves	41.00		22.53	31.22	
Total reserves	28,702.20	21,174.36	8,433.60	50,826.31	35,476.94
SURPLUS					
Debentures paid	2,823.61	3,400.00	4,000.00	44,651.23	15,000.00
Local sinking fund					
Operating surplus	27,372.75	11,644.10	11,553.24	88,042.28	43,665.74
Net frequency standardization expense charged this year			963.33		
Total surplus	30,196.36	15,044.10	14,589.91	132,693.51	58,665.74
Total liabilities, reserves, and surplus	60,439.17	36,864.16	23,334.54	226,057.88	94,941.83
Percentage of net debt to total assets, less equity in H-E.P.C. systems	4.2	3.4	2.01	21.4	1.1

Utilities as at December 31, 1951

Dorchester 557	Drayton 518	Dresden 2,070	Drumbo 334	Dublin 203	Dundalk 811	Dundas 6,787
\$	\$	\$	\$	\$	\$	\$
13,395.29	12,351.21	33,944.94 523.00 38,151.62	6,982.77	7,003.88	218.00 11,393.61	22,277.88 38,563.62 88,832.47
5,922.94	9,412.93	15,722.79	4,844.58	3,730.63	7,872.55	46,750.20
4,396.10	4,918.83	16,051.14	3,300.00	2,084.37	5,482.18	43,369.21
3,132.43	2,096.46	2,111.35	505.64	659.43	2,770.66	17,010.81
243.70	530.55	4,152.09			889.04	3,791.13
27,090.46	29,309.98	110,656.93	15,632.99	13,478.31	28,626.04	260,595.32
3,422.74	2,141.34	1,122.85	4,456.24	7,462.49	2,118.35	3,121.35
5,700.00	4,500.00	1,000.00	8,500.00	1,300.00	15,000.00	10,500.00
207.32	746.64	4,079.54	736.35	176.26	282.39	4,880.48
137.31		7,501.53	31.19			
16,005.60	26,554.98	68,676.05	14,255.39	11,163.53	27,264.23	300,145.48
	32.50	60.87				616.83
3,829.92	72.00		36.00	187.56		1,085.00
56,393.35	63,357.44	193,097.77	43,648.16	33,768.15	73,291.01	580,944.46
4,353.39		19,255.69 2,645.98	420.31	316.67	192.53	396.18 1,471.08
53.22	40.00	548.00	285.00	8.00		10,571.35
4,406.61	40.00	22,449.67	705.31	324.67	192.53	12,438.61
16,005.60	26,554.98	68,676.05	14,255.39	11,163.53	27,264.23	300,145.48
7,554.76	8,863.22	6,965.39 605.34	8,006.71	7,199.94	8,181.80	91,954.35 98.86
23,560.36	35,418.20	76,246.78	22,262.10	18,363.47	35,446.03	392,198.69
4,300.00	9,500.00	12,167.55	4,500.00	6,200.00	5,727.27	53,000.00
24,126.38	18,399.24	82,233.77	16,180.75	8,880.01	31,925.18	123,307.16
28,426.38	27,899.24	94,401.32	20,680.75	15,080.01	37,652.45	176,307.16
56,393.35	63,357.44	193,097.77	43,648.16	33,768.15	73,291.01	580,944.46
10.9	0.1	18.0	2.4	1.4	0.4	4.4

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Dunnville	Durham	Dutton	East York Twp. 62,301
Population	4,384	2,293	863	
ASSETS	\$	\$	\$	\$
Lands and buildings	7,323.56	211.28	75.11	185,806.20
Substation equipment	40,941.49			252,219.65
Distribution system—overhead	51,557.26	29,384.42	11,941.49	728,415.73
Distribution system—underground				
Line transformers	39,216.61	20,638.32	8,120.08	387,927.66
Meters	33,514.96	13,170.08	4,713.39	333,124.22
Street light equipment, regular	12,107.47	4,053.27	2,621.20	119,472.46
Street light equipment, ornamental				
Miscellaneous construction expense	4,693.52	2,073.95	273.15	54,787.47
Steam or hydraulic plant				
Old plant				
Total plant	189,354.87	69,531.32	27,744.42	2,061,753.39
Bank and cash balance	70.00	5,937.44	3,452.90	4,112.52
Securities and investments	30,000.00	2,000.00	7,500.00	
Accounts receivable	3,944.31	800.21	269.69	82,594.44
Inventories	10,877.67	278.66		29,574.42
Sinking fund on local debentures				
Equity in H-E.P.C. systems	139,034.07	62,015.79	39,588.68	724,884.46
Other assets	320.09		1.34	753.60
Frequency standardization expenditure in suspense	368.00		31.85	
Total assets	373,969.01	140,563.42	78,588.88	2,903,672.83
LIABILITIES				
Debenture balance				701,000.00
Accounts payable	37.60	331.39	1,626.80	122,371.73
Bank overdraft	11,607.53			
Other liabilities	2,684.61	62.00	157.36	13,411.22
Total liabilities	14,329.74	393.39	1,784.16	836,782.95
RESERVES				
For equity in H-E.P.C. systems	139,034.07	62,015.79	39,588.68	724,884.46
For depreciation	57,649.28	14,491.27	11,309.59	217,274.72
Other reserves				7,055.84
Total reserves	196,683.35	76,507.06	50,898.27	949,215.02
SURPLUS				
Debentures paid	75,500.00	25,323.97	8,407.49	378,763.36
Local sinking fund				
Operating surplus	87,455.92	38,339.00	17,498.96	975,378.13
Net frequency standardization expense charged this year				236,466.63
Total surplus	162,955.92	63,662.97	25,906.45	1,117,674.86
Total liabilities, reserves, and surplus	373,969.01	140,563.42	78,588.88	2,903,672.83
Percentage of net debt to total assets less equity in H-E.P.C. systems	6.1	0.5	4.6	38.4

Utilities as at December 31, 1951

Elmira 2,547	Elmvale 821	Elmwood	Elora 1,365	Embro 448	Erieau 404	Erie Beach 59
\$ 40,910.93 46,928.02 58,628.00 1,030.41 34,433.72 23,882.23 4,720.10 1,274.57	\$ 156.25 2,273.07 15,865.98 12,472.07 8,645.85 6,009.93 25.97	\$ 1,709.66 8,994.48 3,811.42 3,129.21 1,076.59	\$ 4,584.26 24,581.52 16,627.53 9,898.91 1,732.53 1,687.26	\$ 13,243.24 10,073.94 3,750.62 606.45 1,115.45	\$ 23,297.90 13,880.51 5,910.61 794.23	\$ 4,841.29 1,560.37 1,845.38 306.37
211,807.98 21,630.10 4,825.76 161,725.35 654.40 2,945.79 403,589.38	45,449.12 3,326.39 1,500.00 347.43 29,288.96 79,911.90	18,721.36 1,818.09 3,100.00 233.93 9,470.13 33,343.51	59,112.01 4,771.15 7,500.00 347.31 167.24 74,859.36 146,757.07	28,789.70 4,574.46 3,500.00 97.87 23,132.20 60,094.23	43,883.25 2,369.22 1,000.00 392.36 16,922.19 1,088.45 65,655.47	8,553.41 737.41 134.53 3,593.35 13,018.70
..... 2,356.12 1,029.05 3,385.17 161,725.35 46,272.26 207,997.61 37,168.50 155,038.10 192,206.60 403,589.38	..... 2,037.52 2,037.52 29,288.96 7,067.62 3.68 36,360.26 6,544.07 34,970.05 41,514.12 79,911.90	..... 422.79 1,090.00 1,512.79 9,470.13 3,574.53 13,044.66 6,106.38 12,679.68 18,786.06 33,343.51	..... 2,667.83 390.00 3,057.83 74,859.36 21,418.50 96,277.86 13,000.00 34,421.38 47,421.38 146,757.07	..... 1,137.68 20.38 1,158.06 23,132.20 8,041.16 31,173.36 7,500.00 20,262.81 27,762.81 60,094.23	..... 118.84 42.50 161.34 16,922.19 5,961.71 37.41 22,921.31 6,883.13 35,689.69 42,572.82 65,655.47	..... 500.00 170.00 670.00 3,593.35 653.41 18.90 4,265.66 3,300.00 4,783.04 8,083.04 13,018.70
1.4	4.0	6.3	4.3	3.13	0.3	7.1

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Erin	Essex	Etobicoke Twp.	Exeter
Population	638	2,782	52,635	2,559
ASSETS	\$	\$	\$	\$
Lands and buildings		11,913.64	105,731.78	9,954.19
Substation equipment			146,564.04	
Distribution system—overhead	16,085.98	64,078.74	1,155,996.05	51,198.40
Distribution system—underground		442.55		
Line transformers	3,007.84	32,537.71	530,064.09	29,074.11
Meters	2,189.16	19,487.49	318,910.78	19,302.28
Street light equipment, regular	881.75	3,325.08	149,993.74	5,589.59
Street light equipment, ornamental				
Miscellaneous construction expense	465.22	3,754.15	181,615.45	5,351.12
Steam or hydraulic plant				
Old plant				
Total plant	22,629.95	135,539.36	2,588,875.93	120,469.69
Bank and cash balance	2,538.28	2,395.82	21,497.23	2,637.96
Securities and investments			7,000.00	
Accounts receivable	174.75	1,950.70	27,795.84	3,774.19
Inventories		5,799.29	114,250.60	3,385.70
Sinking fund on local debentures				
Equity in H-E.P.C. systems	280.25	71,110.18	644,328.66	93,590.71
Other assets		7.00	1,634.89	.16
Frequency standardization expenditure in suspense		12.00	184,492.96	14,415.23
Total assets	25,623.23	216,814.35	3,589,876.11	238,273.64
LIABILITIES				
Debenture balance	13,775.00	4,176.74	942,200.00	
Accounts payable	1,295.68	57.00	698,052.24	223.06
Bank overdraft				
Other liabilities	180.00	640.00	24,729.68	1,411.07
Total liabilities	15,250.68	4,873.74	1,664,981.92	1,634.13
RESERVES				
For equity in H-E.P.C. systems	280.25	71,110.18	644,328.66	93,590.71
For depreciation	2,313.40	36,183.14	238,268.92	34,263.71
Other reserves		373.37	2,154.27	60.16
Total reserves	2,593.65	107,666.69	884,751.85	127,914.58
SURPLUS				
Debentures paid	725.00	18,323.26	323,495.40	20,000.05
Local sinking fund				
Operating surplus	7,053.90	85,950.66	716,646.94	88,724.88
Net frequency standardization expense charged this year				
Total surplus	7,778.90	104,273.92	1,040,142.34	108,724.93
Total liabilities, reserves, and surplus	25,623.23	216,814.35	3,589,876.11	238,273.64
Percentage of net debt to total assets, less equity in H-E.P.C. systems	60.2	3.3	60.3	1.1

Utilities as at December 31, 1951

Fergus 3,411	Finch 371	Flesherton 484	Fonthill 1,467	Forest 1,793	Forest Hill 16,374	Frankford 1,398
\$	\$	\$	\$	\$	\$	\$
2,442.52		408.78		6,576.61	47,020.21	
27,539.89					219,993.64	
49,237.48	10,434.74	9,286.33	23,640.06	27,820.08	267,029.89	17,506.86
					6,649.36	
35,215.28	5,197.75	5,714.67	13,218.26	21,844.75	166,651.92	4,961.87
23,984.72	3,724.78	4,150.57	11,764.59	9,445.31	85,663.66	6,619.14
9,955.27	504.07	1,586.58	3,577.87	7,025.37	15,890.06	2,811.76
1,511.07	174.64	485.15	1,955.89	3,465.50	25,504.47	168.13
149,886.23	20,035.98	21,632.08	54,156.67	76,177.62	834,403.21	32,067.76
1,613.21	5,213.99	6,739.60	707.02	4,095.51	70,788.91	11,192.41
	6,000.00	7,000.00		33,510.00	74,000.00	
1,971.53	628.23	60.61	366.71	435.67	4,926.07	701.17
1,969.94		9.65		2,094.23	18,504.01	
144,928.07	10,667.42	13,035.40	16,919.80	75,581.84	461,927.01	851.90
675.53				101.90		
240.00				12,927.12	5,663.60	
301,284.51	42,545.62	48,477.34	72,150.20	204,923.89	1,470,212.81	44,813.24
			3,600.00		117,559.11	16,000.00
331.13	1,090.93				32,517.40	2,506.54
1,020.94	240.95	85.00	424.30	96.86	16,957.82	650.41
1,352.07	1,331.88	85.00	4,024.30	96.86	167,034.33	19,156.95
144,928.07	10,667.42	13,035.40	16,919.80	75,581.84	461,927.01	851.90
28,433.08	3,488.54	5,820.95	8,058.91	28,795.20	227,757.45	4,637.45
203.59				85.89	270.00	
173,564.74	14,155.96	18,856.35	24,978.71	104,462.93	689,954.46	5,489.35
42,000.00	7,000.00	5,830.88	22,900.00	23,357.13	245,222.49	4,000.00
84,367.70	20,057.78	23,705.11	20,247.19	77,006.97	368,001.53	16,166.94
126,367.70	27,057.78	29,535.99	43,147.19	100,364.10	613,224.02	20,166.94
301,284.51	42,545.62	48,477.34	72,150.20	204,923.89	1,470,212.81	44,813.24
0.9	4.2	0.2	7.3	0.1	16.7	43.6

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Galt	Georgetown	Glencoe	Goderich
Population	19,362	3,503	976	4,963
ASSETS	\$	\$	\$	\$
Lands and buildings	258,224.29	5,814.82	3,587.66	80,345.81
Substation equipment	317,025.93	18,491.00		39,569.79
Distribution system—overhead	372,437.42	67,634.57	30,005.71	98,235.40
Distribution system—underground	4,230.40			
Line transformers	198,408.88	47,331.57	16,705.18	54,106.42
Meters	140,445.25	31,820.86	7,162.25	36,841.13
Street light equipment, regular	99,138.53	7,181.76	6,572.91	10,885.09
Street light equipment, ornamental				
Miscellaneous construction expense	42,672.48	6,700.16	1,444.93	21,233.01
Steam or hydraulic plant				
Old plant	*21,955.00			
Total plant	1,454,538.18	184,974.74	65,478.64	341,216.65
Bank and cash balance	25,700.21	1,215.54	267.92	110,392.72
Securities and investments		5,000.00	10,100.00	2,000.00
Accounts receivable	6,069.74	1,676.01	1,252.09	9,300.91
Inventories	96,912.50	14,725.35	863.66	3,643.94
Sinking fund on local debentures				
Equity in H-E.P.C. systems	1,174,408.92	229,327.88	42,163.31	257,014.68
Other assets	8,234.78	168.00	21.86	611.47
Frequency standardization expenditure in suspense	15,859.25		7,824.62	30,791.09
Total assets	2,781,723.58	437,087.52	127,972.10	754,971.46
LIABILITIES				
Debenture balance	98,750.00			128,712.65
Accounts payable	33,751.02	9,147.25	1,182.99	38,888.93
Bank overdraft				
Other liabilities	9,715.74	4,933.13	340.00	4,561.07
Total liabilities	142,216.76	14,080.38	1,522.99	172,162.65
RESERVES				
For equity in H-E.P.C. systems	1,174,408.92	229,327.88	42,163.31	257,014.68
For depreciation	495,091.39	43,671.44	18,545.39	109,161.26
Other reserves	6,000.00	250.00	351.64	626.11
Total reserves	1,675,500.31	273,249.32	61,060.34	366,802.05
SURPLUS				
Debentures paid	519,251.95	20,000.00	20,112.88	92,375.40
Local sinking fund				
Operating surplus	444,754.56	129,757.82	45,275.89	123,631.36
Net frequency standardization expense charged this year				
Total surplus	964,006.51	149,757.82	65,388.77	216,006.76
Total liabilities, reserves, and surplus	2,781,723.58	437,087.52	127,972.10	754,971.46
Percentage of net debt to total assets, less equity in H-E.P.C. systems	8.8	6.8	1.8	34.6

* Annexed plant undistributed.

Utilities as at December 31, 1951

Grand Valley 638	Granton 263	Gravenhurst 2,901	Grimsby 2,685	Guelph 27,140	Hagersville 1,718	Hamilton 201,296
\$	\$	\$	\$	\$	\$	\$
36.50		15,684.91		25,502.97	2,500.00	2,204,705.67
		10,936.03		305,544.53	864.37	3,426,314.36
16,993.43	6,725.23	47,876.34	55,197.71	422,429.94	26,679.68	1,965,011.23
		1,941.77		28,847.47		1,261,623.59
8,021.72	3,444.69	26,492.52	30,961.08	217,963.82	20,834.93	1,586,040.69
6,301.92	2,244.20	25,255.06	23,676.93	179,534.79	15,121.62	1,260,732.82
1,104.37	180.78	8,943.44	5,745.08	51,981.48	1,311.22	475,028.84
		1,367.59		24,984.18	1,668.23	120,084.92
32,457.94	12,594.90	138,497.66	115,580.80	1,256,789.18	68,980.05	12,299,542.12
1,907.13	1,895.69	2,895.29	4,657.27	10,463.87	4,759.08	36,994.05
8,000.00		10,000.00	36,000.00		32,000.00	1,050,000.00
190.10	64.08	489.72	604.94	20,228.37	1,204.16	582,758.02
		1,308.47	67.00	57,629.82	415.64	555,994.10
25,094.68	15,535.52	78,025.89	24,559.13	1,376,084.81	151,939.90	†12,482,375.10
		445.86		1,066.48	1.62	130,605.00
	210.04		75.00	10,634.55		16,372.62
67,649.85	30,300.23	231,662.89	181,544.14	2,732,897.08	259,300.45	27,154,641.01
				90,000.00		
468.47	954.50	261.34	13,238.15	67,147.86	378.81	652,590.69
	50.00	1,178.00	1,891.09	11,093.16	554.43	244,752.07
						43,553.70
468.47	1,004.50	1,439.34	15,129.24	168,241.02	933.24	940,896.46
25,094.68	15,535.52	78,025.89	24,559.13	1,376,084.81	151,939.90	†12,482,375.10
11,933.23	2,165.87	33,300.43	17,139.22	357,384.48	24,586.02	1,785,231.78
	60.00	460.90		2,534.28		242,635.07
37,027.91	17,761.39	111,787.22	41,698.35	1,736,003.57	176,525.92	14,510,241.95
10,794.30	3,500.00	44,278.97	85,344.00	155,000.00	8,000.00	6,185,275.19
19,359.17	8,034.34	74,157.36	39,372.55	673,652.49	73,841.29	5,519,053.41
						826.00
30,153.47	11,534.34	118,436.33	124,716.55	828,652.49	81,841.29	11,703,502.60
67,649.85	30,300.23	231,662.89	181,544.14	2,732,897.08	259,300.45	27,154,641.01
1.1	6.80	0.9	9.6	12.4	0.9	6.4

† Includes 1951 H-E.P.C. equity.

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Hanover	Harriston	Harrow	Hastings	Havelock
Population	3,843	1,555	1,532	825	1,254
ASSETS	\$	\$	\$	\$	\$
Lands and buildings	27,800.95	395.25	2,318.16		
Substation equipment	9,271.19	600.00			572.90
Distribution system—overhead	69,423.90	36,468.93	30,660.37	24,541.25	22,483.06
Distribution system—underground					
Line transformers	39,285.94	18,557.17	24,181.20	5,871.39	5,422.23
Meters	28,145.72	11,589.22	12,484.10	7,235.03	9,292.49
Street light equipment, regular	6,338.04	7,769.44	3,911.31	1,577.62	2,074.57
Street light equipment, ornamental					
Miscellaneous construction expense	2,232.52	3,225.30	111.09		503.40
Steam or hydraulic plant					
Old plant					
Total plant	182,498.26	78,605.31	73,666.23	39,225.29	40,348.65
Bank and cash balance	17,622.57	787.94	2,361.92	2,672.75	13,452.11
Securities and investments	89,411.73		13,700.00	8,000.00	
Accounts receivable	657.28	1,502.69	1,279.93	262.61	15.41
Inventories	504.37	494.04	9,143.38		
Sinking fund on local debentures					
Equity in H-E.P.C. systems	168,078.28	72,364.31	61,681.43	10,375.20	25,100.66
Other assets	1,738.06	2,510.90			46,971.72
Frequency standardization expenditure in suspense		350.88			
Total assets	460,510.55	156,616.07	161,832.89	60,535.85	125,888.55
LIABILITIES					
Debenture balance					30,000.00
Accounts payable	266.75	2,645.05	4,151.72	697.38	657.55
Bank overdraft					
Other liabilities	1,352.00	207.21	690.00	600.47	85.00
Total liabilities	1,618.75	2,852.26	4,841.72	1,297.85	30,742.55
RESERVES					
For equity in H-E.P.C. systems	168,078.28	72,364.31	61,681.43	10,375.20	25,100.66
For depreciation	86,044.59	18,979.70	21,060.96	13,012.67	27,002.68
Other reserves			128.85		
Total reserves	254,122.87	91,344.01	82,741.24	23,387.87	52,103.34
SURPLUS					
Debentures paid	80,162.29	25,818.03	12,000.00	21,000.00	32,900.00
Local sinking fund					
Operating surplus	124,606.64	36,601.77	62,119.93	14,850.13	10,142.66
Net frequency standardization expense charged this year					
Total surplus	204,768.93	62,419.80	74,119.93	35,850.13	43,042.66
Total liabilities, reserves, and surplus	460,510.55	156,616.07	161,832.89	60,535.85	125,888.55
Percentage of net debt to total assets, less equity in H-E.P.C. systems	0.6	3.4	4.8	2.6	30.5

Utilities as at December 31, 1951

Hensall 676	Hespeler 3,799	Highgate 351	Holstein 179	Humber- stone 3,722	Huntsville 3,192	Ingersoll 6,533
\$	\$	\$	\$	\$	\$	\$
22,730.43	17,571.77 61,710.62 58,321.02	10,482.22	5,173.88	26,809.12 40,731.48	353.52 647.30 38,193.78	30,330.70 107,837.13 82,291.90
19,734.41	50,517.16	4,959.01	2,504.43	21,963.45	33,318.00	66,009.69
7,360.77	21,559.73	2,374.14	1,611.14	19,384.65	24,874.65	48,522.66
3,556.77	15,709.13	3,090.72	1,100.04	2,465.08	11,653.44	8,283.01
206.56	5,285.52		42.67	2,807.33	1,951.29	3,565.22
53,588.94	230,674.95	20,906.09	10,432.16	114,161.11	110,991.98	346,840.31
	22,627.46	44.05		75.00		22,650.72
2,000.00	10,000.00	3,000.00	2,000.00			
366.59	29,408.89	36.94	300.00	1,375.50	2,905.43	5,037.15
	1,262.29			970.20	12,791.42	1,190.76
35,426.64	263,464.07	18,721.75	5,369.13	50,214.37	131,202.19	385,346.00
20.00	703.81			43.57		
5,488.89	2,305.00	9.00				208.50
96,891.06	560,446.47	42,717.83	18,101.29	166,839.75	257,891.02	761,273.44
697.94	2,911.77	1.25	298.91		166.71	80,000.00
737.19			377.28	1,196.90	6,216.78	20,274.76
40.00	1,810.00	75.00	42.60	1,546.59	832.23	3,296.17
1,475.13	4,721.77	76.25	718.79	2,743.49	7,215.72	103,570.93
35,426.64	263,464.07	18,721.75	5,369.13	50,214.37	131,202.19	385,346.00
14,964.61	25,568.54	6,666.21	1,179.00	7,610.79	19,545.27	46,382.94
	105.17				129.14	147.38
50,391.25	289,137.78	25,387.96	6,548.13	57,825.16	150,876.60	431,876.32
12,000.00	77,570.51	5,000.00	2,762.05	32,000.00	15,697.39	79,800.00
33,024.68	189,016.41	12,253.62	8,072.32	74,271.10	84,101.31	146,026.19
45,024.68	266,586.92	17,253.62	10,834.37	106,271.10	99,798.70	225,826.19
96,891.06	560,446.47	42,717.83	18,101.29	166,839.75	257,891.02	761,273.44
2.40	1.6	0.3	5.6	2.3	5.7	27.6

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Iroquois	Jarvis	Kemptville	Kincardine
Population	1,067	645	1,545	2,665
ASSETS	\$	\$	\$	\$
Lands and buildings	281.20		5,442.46	6,740.17
Substation equipment	100.00			7,512.39
Distribution system—overhead	13,319.60	13,430.80	30,821.08	70,905.32
Distribution system—underground				
Line transformers	5,244.80	8,032.24	19,948.67	32,419.69
Meters	6,776.01	4,303.13	14,593.31	21,324.17
Street light equipment, regular	2,708.13	977.33	1,286.90	11,229.34
Street light equipment, ornamental				
Miscellaneous construction expense	278.67	136.64	798.82	281.60
Steam or hydraulic plant				
Old plant	575.00			
Total plant	29,283.41	26,880.14	72,891.24	150,412.68
Bank and cash balance	1,987.15	4,306.95		11,892.94
Securities and investments	10,000.00	10,000.00	6,000.00	25,000.00
Accounts receivable	287.67	15.09	5,273.38	847.06
Inventories	1,049.62		3,447.89	238.09
Sinking fund on local debentures				
Equity in H-E.P.C. systems	8,343.76	31,176.88	45,045.94	94,390.76
Other assets				
Frequency standardization expenditure in suspense				
Total assets	50,951.61	72,379.06	132,658.45	282,781.53
LIABILITIES				
Debenture balance				
Accounts payable	1,865.43	407.09	1,239.62	
Bank overdraft			1,295.71	
Other liabilities	576.64		466.52	747.32
Total liabilities	2,442.07	407.09	3,001.85	747.32
RESERVES				
For equity in H-E.P.C. systems	8,343.76	31,176.88	45,045.94	94,390.76
For depreciation	5,371.28	2,084.17	12,904.54	30,063.79
Other reserves			517.17	39.62
Total reserves	13,715.04	33,261.05	58,467.65	124,494.17
SURPLUS				
Debentures paid		10,500.00	19,506.62	60,000.00
Local sinking fund				
Operating surplus	34,794.50	28,210.92	51,682.33	97,540.04
Net frequency standardization expense charged this year				
Total surplus	34,794.50	38,710.92	71,188.95	157,540.04
Total liabilities, reserves, and surplus	50,951.61	72,379.06	132,658.45	282,781.53
Percentage of net debt to total assets less equity in H-E.P.C. systems	5.7	1.0	3.5	0.4

Utilities as at December 31, 1951

Kingston	Kingsville	Kirkfield	Kitchener	Lakefield	Lambeth	Lanark
42,437	2,552	191	48,773	1,760	1,080	775
\$	\$	\$	\$	\$	\$	\$
372,453.33	8,730.87		325,523.39	3,532.97		
425,214.13			575,871.80			
383,022.04	50,477.49	6,476.45	761,001.05	34,165.68	26,873.00	13,308.51
374,323.09			245,596.86			
217,722.25	23,186.72	1,621.50	464,797.91	16,837.98	9,414.44	7,392.12
221,979.42	23,330.76	1,454.34	309,070.16	12,916.23	8,323.04	4,873.70
108,270.63	2,438.96	471.81	116,493.83	3,360.10	1,408.43	1,555.77
16,180.17	1,150.43		99,308.80	1,634.10	17.00	332.90
21,864.60						
2,141,029.66	109,315.23	10,024.10	2,897,663.80	72,447.06	46,035.91	27,463.00
45,356.39	496.48	2,002.65	82,067.26	11,179.11	7,226.43	7,263.18
180,000.00	13,500.00	3,000.00		24,000.00		6,000.00
129,601.49	2,099.57	214.86	371,970.02	774.86	1,278.51	20.28
65,638.80	1,412.15		156,719.15	3,362.64		
492,757.84	88,612.53	6,434.72	2,806,346.48	32,424.87	20,598.73	14,038.72
25,648.75			1,516.89			
	12,671.64		248.60		4,235.35	
3,080,032.93	228,107.60	21,676.33	6,316,532.20	144,188.54	79,374.93	54,785.18
	6,505.42		227,800.00		27,519.73	
160,788.91		177.10	159,336.59	82.04	205.19	240.02
12,569.71	2,604.75		12,396.57	569.53	358.03	130.00
173,358.62	9,110.17	177.10	399,533.16	651.57	28,082.95	370.02
492,757.84	88,612.53	6,434.72	2,806,346.48	32,424.87	20,598.73	14,038.72
587,045.23	35,681.29	4,252.54	554,120.90	19,472.73	9,297.50	3,606.05
100,000.00	388.66	200.00	6,403.04		16.85	
1,179,803.07	124,682.48	10,887.26	3,366,870.42	51,897.60	29,913.08	17,644.77
274,339.08	26,994.58	5,765.89	759,350.00	33,500.00	4,980.27	7,316.57
1,452,532.16	67,320.37	4,846.08	1,790,778.62	58,139.37	16,398.63	29,453.82
1,726,871.24	94,314.95	10,611.97	2,550,128.62	91,639.37	21,378.90	36,770.39
3,080,032.93	228,107.60	21,676.33	6,316,532.20	144,188.54	79,374.93	54,785.18
6.7	6.5	1.2	11.3	0.6	47.8	9.1

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Lancaster	La Salle	Leaming- ton	Lindsay	Listowel
Population	568	1,892	7,541	9,504	3,443
ASSETS	\$	\$	\$	\$	\$
Lands and buildings		1,210.68	36,105.25	20,904.25	1,459.49
Substation equipment			8,288.84	5,386.07	3,848.00
Distribution system—overhead	9,308.09	45,112.59	92,278.86	156,693.52	76,880.59
Distribution system—underground			38,287.68	24,181.53	7,090.76
Line transformers	2,227.75	17,143.64	50,938.60	75,352.68	39,217.51
Meters	2,882.48	13,250.35	48,220.06	65,838.19	27,299.21
Street light equipment, regular	650.65	1,823.97	4,492.39	15,125.67	6,084.31
Street light equipment, ornamental					
Miscellaneous construction expense	98.29	760.45	2,618.10	18,806.60	6,010.18
Steam or hydraulic plant					
Old plant					
Total plant	15,167.26	79,301.68	281,229.78	382,288.51	167,890.05
Bank and cash balance	2,243.60	1,287.13	21,176.39		13,551.49
Securities and investments	4,000.00		2,000.00	15,000.00	5,000.00
Accounts receivable	712.54	1,588.64	4,339.62	1,800.06	722.44
Inventories		399.70	9,851.28	18,890.59	1,106.53
Sinking fund on local debentures					
Equity in H-E.P.C. systems	11,961.92	33,619.93	208,682.28	250,927.23	172,392.31
Other assets		13.60	.36		146.83
Franchise standardization expenditure in suspense		26.50	10.00		203.10
Total assets	34,085.32	116,237.18	527,289.71	668,906.39	361,012.75
LIABILITIES					
Debenture balance					
Accounts payable	135.75	11,449.87	12,064.71	1,074.03	2,056.01
Bank overdraft				3,450.31	
Other liabilities	157.86	1,122.02	4,005.56	6,167.13	1,050.83
Total liabilities	293.61	12,571.89	16,070.27	10,691.47	3,106.84
RESERVES					
For equity in H-E.P.C. systems	11,961.92	33,619.93	208,682.28	250,927.23	172,392.31
For depreciation	5,635.36	16,957.59	70,849.98	65,333.38	71,998.48
Other reserves		159.26	216.75		
Total reserves	17,597.28	50,736.78	279,749.01	316,260.61	244,390.79
SURPLUS					
Debentures paid	8,916.82	15,500.00	48,000.00	130,000.00	43,189.89
Local sinking fund					
Operating surplus	7,277.61	37,428.51	183,470.43	211,954.31	70,325.23
Net frequency standardization expense charged this year					
Total surplus	16,194.43	52,928.51	231,470.43	341,954.31	113,515.12
Total liabilities, reserves, and surplus	34,085.32	116,237.18	527,289.71	668,906.39	361,012.75
Percentage of net debt to total assets less equity in H-E.P.C. systems	1.3	15.2	0.5	2.6	1.6

Utilities as at December 31, 1951

London 95,612	London Twp. (V.A.) 3,200	Long Branch 8,520	Lucan 875	Lucknow 857	Lynden 434	Madoc 1,291
\$	\$	\$	\$	\$	\$	\$
528,220.10			375.45		241.18	100.00
1,609,508.44						
1,098,412.75	43,090.59	100,394.22	17,317.90	27,100.99	8,083.58	36,014.18
922,343.93						
840,103.42	18,929.03	65,036.46	10,783.58	15,808.78	5,068.68	13,016.04
625,208.33	13,320.22	41,773.62	6,364.72	8,418.35	3,831.80	9,967.83
168,471.54	2,436.52	22,783.82	5,034.81	3,941.33	695.10	1,792.37
340,720.62	74.65		922.18	404.17		493.10
6,132,989.13	77,851.01	229,988.12	40,798.64	55,673.62	17,920.34	61,383.52
15,651.10	3,081.98	2,247.07	2,605.12	6,449.58	1,121.19	4,169.61
302,500.00	2,000.00	3,000.00	5,500.00	22,000.00	3,000.00	2,000.00
387,067.22	611.56	31,962.72	75.50	710.58	290.24	739.12
356,272.83						4,241.92
4,944,651.26	50,300.62	88,606.49	36,172.80	44,921.08	24,579.17	20,788.28
161,601.05						
33,624.42	10,698.70	1,045.00	271.37			
12,334,357.01	144,543.87	356,849.40	85,423.43	129,754.86	46,910.94	93,322.45
650,000.00						
96,653.52	16,947.03		469.87	1,311.16	172.15	1,035.57
453,932.86						
29,102.02	529.00	4,247.07	597.00		21.82	533.84
1,229,688.40	17,476.03	4,247.07	1,066.87	1,311.16	193.97	1,569.41
4,944,651.26	50,300.62	88,606.49	36,172.80	44,921.08	24,579.17	20,788.28
2,028,895.39	19,942.86	34,459.42	11,995.48	4,592.60	5,163.76	11,975.44
228,940.33	3.82	586.06		490.75		
7,202,486.98	70,247.30	123,651.97	48,168.28	50,004.43	29,742.93	32,763.72
1,581,900.00	19,000.00	40,304.60	11,213.62	17,614.08	4,495.00	14,000.00
2,522,697.38	37,820.54	188,645.76	24,974.66	60,825.19	12,479.04	44,989.32
202,415.75						
3,902,181.63	56,820.54	228,950.36	36,188.28	78,439.27	16,974.04	58,989.32
12,334,357.01	144,543.87	356,849.40	85,423.43	129,754.86	46,910.94	93,322.45
16.6	18.5	1.6	2.17	1.5	0.9	2.2

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Magnet- awan 221	Markdale 982	Markham 1,715	Marmora 1,117	Martin- town 125
Population					
ASSETS	\$	\$	\$	\$	\$
Lands and buildings					126.15
Substation equipment	559.60	780.80			
Distribution system—overhead	10,752.55	17,499.03	35,124.11	17,140.51	3,930.41
Distribution system—underground					
Line transformers	2,257.60	11,140.54	21,126.72	8,065.21	1,843.77
Meters	1,343.17	8,687.56	14,108.26	6,327.12	1,571.06
Street light equipment, regular	738.62	4,542.17	2,292.82	1,382.43	679.01
Street light equipment, ornamental					
Miscellaneous construction expense	566.30	340.00	548.40	247.77	36.94
Steam or hydraulic plant					
Old plant	3,084.05				
Total plant	19,301.89	42,990.10	73,200.31	33,163.04	8,187.34
Bank and cash balance	11,415.65	6,186.42		2,145.10	3,526.37
Securities and investments	100.00		14,000.00	8,000.00	2,500.00
Accounts receivable	120.55	147.34	232.52	1,688.16	267.39
Inventories		51.76		2,644.57	
Sinking fund on local debentures					
Equity in H-E.P.C. systems		22,026.04	43,073.70	13,509.98	4,616.47
Other assets					
Frequency standardization expendi- ture in suspense					
Total assets	30,938.09	71,401.66	130,506.53	61,150.85	19,097.57
LIABILITIES					
Debenture balance	28,200.00				
Accounts payable	149.70				180.85
Bank overdraft			1,308.91		
Other liabilities		107.00	135.00	205.00	5.00
Total liabilities	28,349.70	107.00	1,443.91	205.00	185.85
RESERVES					
For equity in H-E.P.C. systems		22,026.04	43,073.70	13,509.98	4,616.47
For depreciation	2,289.75	4,517.49	8,110.61	20,894.43	2,298.02
Other reserves					81.02
Total reserves	2,289.75	26,543.53	51,184.31	34,404.41	6,995.51
SURPLUS					
Debentures paid		6,370.29	11,373.63	15,091.58	5,346.73
Local sinking fund					
Operating surplus	298.64	38,380.84	70,989.26	11,449.86	6,569.48
Net frequency standardization ex- pense charged this year			4,484.58		
Total surplus	298.64	44,751.13	77,878.31	26,541.44	11,916.21
Total liabilities, reserves, and surplus	30,938.09	71,401.66	130,506.53	61,150.85	19,097.57
Percentage of net debt to total assets, less equity in H-E.P.C. systems	91.6	0.2	1.7	0.4	1.3

Utilities as at December 31, 1951

Maxville	Meaford	Merlin	Merrickville	Merritton	Midland	Mildmay
776	3,169	635	950	4,783	7,257	850
\$	\$	\$	\$	\$	\$	\$
407.79	1,144.18	17,741.50		52,286.15	26,727.00	
14,671.79	2,593.47			105,902.94	155,316.99	
	51,791.33	11,820.42	16,512.77	71,523.31	142,370.63	9,938.90
6,976.25	27,104.06	5,810.18	6,871.27	33,398.79	54,258.03	10,561.10
4,858.97	25,055.35	4,374.92	5,069.07	29,612.64	59,206.90	5,662.90
2,428.63	12,026.22	1,123.54	581.34	8,666.41	23,093.40	1,917.57
428.34	3,884.64	223.10	596.42	5,036.85	10,542.07	911.31
						849.00
29,771.77	123,599.25	41,093.66	29,630.87	306,427.09	471,515.02	29,840.78
1,817.39	22,058.09	3,298.38	5,801.32	72,489.82	8,693.80	4,343.06
4,000.00	25,000.00			57,000.00	166,000.00	6,500.00
595.97	769.51	1,028.41	4,115.25	7,312.20	5,152.44	168.41
	867.19	493.79		12,884.63	14,326.45	
19,391.32	72,567.18	22,141.86	295.62	480,182.61	445,440.41	10,453.99
	388.09			111.35	3,956.29	
		5.00		1,450.00		
55,576.45	245,249.31	68,061.10	39,843.06	937,857.70	1,115,084.41	51,306.24
			24,100.00			1,032.35
2,147.31	1,259.01	426.76	2,870.38	380.41	71,318.05	437.20
112.94	1,822.23	95.00	185.00	1,336.59	1,741.73	468.43
2,260.25	3,081.24	521.76	27,155.38	1,717.00	73,059.78	1,937.98
19,391.32	72,567.18	22,141.86	295.62	480,182.61	445,440.41	10,453.99
4,365.16	20,651.66	9,126.31	2,809.25	60,066.63	241,395.76	1,714.72
337.62	15.42	23.40			1,302.06	
24,094.10	93,234.26	31,291.57	3,104.87	540,249.24	688,138.23	12,168.71
13,642.40	47,724.76	13,122.36	900.00	32,186.21	111,944.99	11,271.15
15,579.70	101,209.05	23,125.41	8,682.81	363,705.25	241,941.41	25,928.40
29,222.10	148,933.81	36,247.77	9,582.81	395,891.46	353,886.40	37,199.55
55,576.45	245,249.31	68,061.10	39,843.06	937,857.70	1,115,084.41	51,306.24
6.2	1.8	1.1	68.6	0.4	10.9	4.7

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Millbrook	Milton	Milverton	Mimico	Mitchell
Population	739	2,460	1,062	11,503	1,951
ASSETS	\$	\$	\$	\$	\$
Lands and buildings		17,085.21	761.88	105,567.85	27,173.57
Substation equipment		47,949.60		78,998.08	35,695.82
Distribution system—overhead	12,434.69	46,962.43	17,537.83	121,762.32	41,835.70
Distribution system—underground					
Line transformers	5,132.94	27,066.73	17,507.02	75,802.26	28,440.71
Meters	4,089.57	21,861.35	9,186.04	50,936.74	18,717.51
Street light equipment, regular	2,355.54	21,151.50	1,022.88	13,888.11	7,838.75
Street light equipment, ornamental					
Miscellaneous construction expense		4,489.59	449.02	14,696.16	7,669.49
Steam or hydraulic plant					
Old plant					
Total plant	24,012.74	186,566.41	46,464.67	461,651.52	167,371.55
Bank and cash balance	4,727.83	50.00		133,240.74	207.48
Securities and investments	4,000.00		4,000.00	5,000.00	10,300.00
Accounts receivable	219.96	4,020.59	843.26	2,656.44	17,121.77
Inventories		2,461.43	134.00	1,990.33	15,255.99
Sinking fund on local debentures					
Equity in H-E.P.C. systems	5,091.47	201,731.33	80,947.97	298,400.83	94,752.39
Other assets	891.66	10.49		976.22	97.19
Frequency standardization expenditure in suspense		2,024.28	6.00	15,091.87	7,994.81
Total assets	38,943.66	396,864.53	132,395.90	919,007.95	313,101.18
LIABILITIES					
Debenture balance				125,000.00	25,000.00
Accounts payable		191.43	782.74		5,672.12
Bank overdraft		15,811.06	2,980.98		
Other liabilities	150.04	489.06		11,677.40	307.00
Total liabilities	150.04	16,491.55	3,763.72	136,677.40	30,979.12
RESERVES					
For equity in H-E.P.C. systems	5,091.47	201,731.33	80,947.97	298,400.83	94,752.39
For depreciation	5,243.89	35,488.18	9,912.30	133,725.34	47,538.34
Other reserves		136.82		421.80	1,352.49
Total reserves	10,335.36	237,356.33	90,860.27	432,547.97	143,643.22
SURPLUS					
Debentures paid	9,000.00	33,046.41	9,500.00	127,000.00	22,295.22
Local sinking fund					
Operating surplus	19,458.26	109,970.24	28,271.91	222,782.58	116,183.62
Net frequency standardization expense charged this year					
Total surplus	28,458.26	143,016.65	37,771.91	349,782.58	138,478.84
Total liabilities, reserves, and surplus	38,943.66	396,864.53	132,395.90	919,007.95	313,101.18
Percentage of net debt to total assets less equity in H-E.P.C. systems	0.4	8.5	7.3	22.6	14.2

Utilities as at December 31, 1951

Moorefield 278	Morrisburg 1,876	Mount Brydges 637	Mount Forest 2,170	Napanee 3,803	Neustadt 462	Newboro 309
\$	\$	\$	\$	\$	\$	\$
5,534.60	5,682.38 4,499.48 19,869.43	3,726.00 686.75 13,305.06	25,014.83 2,358.27 31,661.88	71,154.90	12,719.71	11,647.21
3,203.69	12,972.85	6,204.84	17,708.69	29,093.24	7,566.37	3,031.04
2,131.14	12,863.91	4,218.08	16,320.64	29,359.20	3,807.05	2,530.00
295.88	7,869.67	1,844.04	5,273.56	7,106.01	1,900.76	1,003.39
61.27	851.18		3,304.48	10,603.94	372.48	1,345.17
11,226.58	64,608.90	25,572.02	78,682.00	174,690.39	26,366.37	19,556.81
1,860.94	8,474.81	956.52	10,076.82	100.00	2,759.93	4,142.85
2,500.00	16,000.00	2,500.00	20,000.00	12,800.00	14,700.00	
236.54	4,582.90	1,070.18	550.33	31,400.07	93.36	19.23
	697.46	1,317.14	253.02	18,412.93		
12,872.34	12,806.24	15,599.59	71,809.04	102,097.04	11,792.68	320.34
46.50		4,705.00				
28,742.90	107,170.31	51,720.45	181,371.21	339,500.43	55,712.34	24,039.23
191.64	1,636.90	347.25	328.81	432.03	226.11	15,715.68 543.44
7.22	2,082.39	155.10	150.00	9,554.29 2,103.97	298.85	88.00
198.86	3,719.29	502.35	478.81	12,090.29	524.96	16,347.12
12,872.34	12,806.24	15,599.59	71,809.04	102,097.04	11,792.68	320.34
3,798.90	3,060.27	7,337.06 94.03	26,006.01	41,273.99	10,273.10	1,099.70
16,671.24	15,866.51	23,030.68	97,815.05	143,371.03	22,065.78	1,420.04
4,500.00	31,636.00	4,220.00	25,351.63	70,000.00	15,504.12	1,284.32
7,372.80	55,948.51	23,967.42	57,725.72	114,039.11	17,617.48	4,987.75
11,872.80	87,584.51	28,187.42	83,077.35	184,039.11	33,121.60	6,272.07
28,742.90	107,170.31	51,720.45	181,371.21	339,500.43	55,712.34	24,039.23
1.3	3.9	1.4	0.4	5.1	1.2	68.9

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Newburgh	Newbury	Newcastle	New Hamburg	Newmarket
Population	453	289	895	1,726	5,244
ASSETS	\$	\$	\$	\$	\$
Lands and buildings			107.37	4,203.21	4,000.00
Substation equipment				1,319.80	5,000.00
Distribution system—overhead	16,993.90	7,837.15	19,747.42	27,631.65	90,279.36
Distribution system—underground					
Line transformers	4,903.05	2,966.14	9,709.99	19,560.10	62,572.20
Meters	3,731.47	1,936.77	6,650.57	14,589.02	44,466.39
Street light equipment, regular	1,018.67	894.16	2,250.72	2,623.47	19,615.62
Street light equipment, ornamental					
Miscellaneous construction expense	101.74		990.20	2,230.77	6,378.10
Steam or hydraulic plant					
Old plant					
Total plant	26,748.83	13,634.22	39,456.27	72,158.02	232,311.67
Bank and cash balance	1,248.16	3,472.58	3,663.81	3,457.71	25.00
Securities and investments		6,500.00	10,500.00	9,000.00	
Accounts receivable	87.10	672.92	207.84	1,739.79	13,503.22
Inventories				2,534.77	128.43
Sinking fund on local debentures					
Equity in H-E.P.C. systems	377.91	8,814.10	9,738.23	98,413.02	35,444.39
Other assets				15.32	
Frequency standardization expenditure in suspense		33.00		10.00	
Total assets	28,462.00	33,126.82	63,566.15	187,328.63	281,412.71
LIABILITIES					
Debenture balance	12,500.00				57,878.34
Accounts payable	176.81	185.75		340.00	570.12
Bank overdraft					14,564.88
Other liabilities	74.00	52.84		161.34	1,728.42
Total liabilities	12,750.81	238.59		501.34	74,741.76
RESERVES					
For equity in H-E.P.C. systems	377.91	8,814.10	9,738.23	98,413.02	35,444.39
For depreciation	11,578.02	7,469.56	11,839.31	20,846.40	45,661.60
Other reserves				33.83	593.00
Total reserves	11,955.93	16,283.66	21,577.54	119,293.25	81,698.99
SURPLUS					
Debentures paid	1,500.00	9,754.39	14,000.00	17,729.08	7,121.66
Local sinking fund					
Operating surplus	2,255.26	6,850.18	27,988.61	49,804.96	133,824.38
Net frequency standardization expense charged this year					15,974.08
Total surplus	3,755.26	16,604.57	41,988.61	67,534.04	124,971.96
Total liabilities, reserves, and surplus	28,462.00	33,126.82	63,566.15	187,328.63	281,412.71
Percentage of net debt to total assets less equity in H-E.P.C. systems	45.4	0.98	0.0	0.6	30.4

Utilities as at December 31, 1951

New Toronto 11,072	Niagara 2,160	Niagara Falls 22,686	North York Twp. 80,771	Norwich 1,380	Norwood 951	Oakville 6,691
\$ 64,905.40	\$ 4,463.20	\$ 139,632.47	\$ 113,930.52	\$ 4,697.92	\$ 802.15	\$ 10,213.04
138,681.46	24,212.17	341,086.28	591,432.36	13,913.21	27,254.59	131,654.14
17,198.72	55,506.39	314,180.47	2,046,941.69	12,574.30	7,842.07	71,920.37
105,796.42	34,203.51	25,952.12	984,680.24	12,261.80	8,957.08	61,038.11
61,123.51	21,341.84	168,955.24	577,904.37	4,745.69	2,141.72	23,949.91
22,667.90	5,109.12	157,649.48	156.00			
7,832.11	2,864.96	41,172.73	98,287.98	4,200.23	444.15	12,992.68
418,205.52	147,701.19	1,441,578.57	4,413,333.16	52,393.15	46,639.61	312,570.40
47,755.41	5,544.80	12,041.72	125,693.28	6,707.56	6,754.18	9,004.11
120,000.00	10,000.00	185,000.00	10,000.00	12,300.00	1,000.00	5,295.68
21,743.00	4,650.16	22,815.69	80,371.20	760.87	2,889.31	27,419.82
13,273.22	11,606.25	37,891.12	93,859.74	5,480.83		
1,018,384.22	70,186.85	1,102,901.56	601,157.65	71,744.89	14,479.28	16,964.38
		4,145.71	17.43	497.89	52,424.59	
1,240.14		776.56	28,019.00			21.64
1,640,601.51	249,689.25	2,807,150.93	5,352,451.46	149,885.19	124,186.97	371,276.03
280.69	3,600.00		2,513,571.35		18,000.00	
	255.97	12,258.01	291,422.11	7,912.32	4,623.57	64,986.55
6,785.37	959.65	30,666.46	60,384.56	502.51	522.87	4,090.00
7,066.06	4,815.62	27,564.01	2,865,378.02	8,414.83	23,146.44	69,076.55
1,018,384.22	70,186.85	1,102,901.56	601,157.65	71,744.89	14,479.28	16,964.38
111,308.06	37,413.75	450,322.51	455,262.71	14,408.37	30,860.00	125,183.57
840.73	598.73	1,014.59	10,265.05	408.32		4,709.44
1,130,533.01	108,199.33	1,554,238.66	1,066,685.41	86,561.58	45,339.28	146,857.39
8,000.00	44,907.67	690,243.00	664,450.52	13,756.00	37,100.00	
495,002.44	91,766.63	492,180.79	755,937.51	41,152.78	18,601.25	155,342.09
503,002.44	136,674.30	1,182,423.79	1,420,388.03	54,908.78	55,701.25	155,342.09
1,640,601.51	249,689.25	2,807,150.93	5,352,451.46	149,885.19	124,186.97	371,276.03
1.1	2.7	4.1	60.7	10.8	21.1	19.5

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Oil Springs	Omemece	Orange- ville	Orono	Oshawa
Population	448	750	3,302	719	40,727
ASSETS	\$	\$	\$	\$	\$
Lands and buildings	6,457.31	200.00	2,585.07		187,906.86
Substation equipment	2,461.78	769.83			407,355.42
Distribution system—overhead	16,994.26	21,850.07	48,891.25	11,580.72	655,053.42
Distribution system—underground					194,791.09
Line transformers	9,576.14	10,663.34	27,053.41	7,843.37	291,285.35
Meters	5,539.67	5,289.87	22,594.82	4,712.73	255,919.10
Street light equipment, regular	1,015.13	2,360.33	22,620.72	1,679.28	143,390.48
Street light equipment, ornamental					
Miscellaneous construction expense	282.01	354.75	1,348.43	2,809.41	61,553.07
Steam or hydraulic plant					
Old plant					
Total plant	42,326.30	41,488.19	125,093.70	28,625.51	2,197,254.79
Bank and cash balance	8,481.56	2,905.27	9,155.67	1,937.16	101,334.26
Securities and investments	6,500.00	8,000.00	50,000.00	8,000.00	100,000.00
Accounts receivable	31.92	160.77	1,517.79	33.04	146,158.15
Inventories	360.09		300.95	1,061.59	83,505.30
Sinking fund on local debentures					
Equity in H-E.P.C. systems	45,088.32	6,955.15	97,188.45	4,643.50	1,309,480.99
Other assets			800.00		498.73
Frequency standardization expenditure in suspense					
Total assets	102,788.19	59,509.38	284,056.56	44,300.80	3,938,232.22
LIABILITIES					
Debenture balance					
Accounts payable	29.94	78.95	38.16	120.00	352,847.72
Bank overdraft					
Other liabilities	30.00	173.83	993.00		32,862.45
Total liabilities	59.94	252.78	1,031.16	120.00	385,710.17
RESERVES					
For equity in H-E.P.C. systems	45,088.32	6,955.15	97,188.45	4,643.50	1,309,480.99
For depreciation	16,286.79	14,327.20	37,504.84	5,578.58	381,869.71
Other reserves	85.23				77,012.20
Total reserves	61,460.34	21,282.35	134,693.29	10,222.08	1,768,362.90
SURPLUS					
Debentures paid	16,721.31	12,000.00	25,594.32	8,000.00	302,622.40
Local sinking fund					
Operating surplus	26,830.50	25,974.25	122,737.79	25,958.72	1,481,536.75
Net frequency standardization expense charged this year	2,233.90				
Total surplus	41,267.91	37,974.25	148,332.11	33,958.72	1,784,159.15
Total liabilities, reserves, and surplus	102,788.19	59,509.38	284,056.56	44,300.80	3,938,232.22
Percentage of net debt to total assets, less equity in H-E.P.C. systems	0.1	0.5	0.6	0.3	14.7

Utilities as at December 31, 1951

Ottawa	Otterville	Owen Sound	Paisley	Palmerston	Paris	Parkhill
195,067	588	16,898	729	1,570	5,274	975
\$	\$	\$	\$	\$	\$	\$
2,080,702.99	738.91	58,147.00			13,570.15	
3,844,825.92		99,207.75	1,923.46	1,346.28	78,511.45	
3,000,860.39	12,267.20	233,575.55	19,448.97	39,602.28	84,358.50	29,650.66
808,393.05		8,036.78				
1,851,411.89	9,129.33	103,837.56	7,962.16	20,692.97	55,696.90	15,974.20
1,090,820.19	4,500.53	111,372.70	6,110.45	14,441.02	29,124.90	7,675.19
303,194.19	1,941.01	58,056.88	2,863.06	10,693.77	19,482.98	9,096.10
118,262.70	813.56	8,375.33	127.68	1,705.61	10,202.45	885.69
1,731,575.65						
10,000.00						
14,840,046.97	29,390.54	680,609.55	38,435.78	88,481.93	290,947.33	63,281.84
149,040.91	2,077.24	320.00	6,580.63	12,188.15	8,979.40	16,752.44
188,000.00	5,500.00	77,500.00	4,500.00	20,600.00		
542,499.40	137.09	35,610.49	90.93	438.04	871.29	274.49
650,028.74	251.00	50,406.76	260.76	7,237.25	274.90	
246,700.77						
810,495.05	18,353.49	505,755.88	22,932.85	88,279.07	228,328.99	40,369.34
14,239.19		8.46			571.74	
	40.00				1,420.00	241.78
17,441,651.03	55,749.36	1,350,211.14	72,800.95	217,224.44	531,393.65	120,919.89
6,479,261.15		94,500.00			25,000.00	14,400.00
624,725.13	94.30	32,601.53	410.71	287.98	981.89	1,311.12
		16,279.56				
	86.38	13,404.78	52.42	377.70		438.73
7,103,986.28	180.68	156,785.87	463.13	665.68	25,981.89	16,149.85
810,495.05	18,353.49	505,755.88	22,932.85	88,279.07	228,328.99	40,369.34
3,386,613.98	10,619.43	124,511.59	7,369.28	28,219.01	83,641.94	9,740.04
188,020.54		1,124.05		299.38	39.34	
4,385,129.57	28,972.92	631,391.52	30,302.13	116,797.46	312,010.27	50,109.38
1,500,738.85	4,500.00	113,218.00	13,623.35	27,000.00	92,000.00	15,230.02
246,700.77						
4,204,495.56	22,095.76	448,815.75	28,412.34	72,761.30	101,401.49	39,430.64
5,951,935.18	26,595.76	562,033.75	42,035.69	99,761.30	193,401.49	54,660.66
17,441,051.03	55,749.36	1,350,211.14	72,800.95	217,224.44	531,393.65	120,919.89
42.7	0.5	18.6	0.9	0.5	8.5	20.05

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Parry Sound	Penetang- uishene	Perth	Peter- borough
Population	5,215	4,964	4,920	37,192
ASSETS	\$	\$	\$	\$
Lands and buildings	2,352.76	2,288.05	5,109.34	210,554.86
Substation equipment	22,043.00	7,161.13	17,288.93	494,194.15
Distribution system—overhead	62,572.65	69,788.50	81,540.56	804,525.69
Distribution system—underground				
Line transformers	30,268.87	34,494.97	51,436.88	338,973.65
Meters	35,956.97	28,285.29	34,208.62	239,038.12
Street light equipment, regular	19,884.57	13,084.53	29,484.99	144,618.63
Street light equipment, ornamental				
Miscellaneous construction expense	4,622.40	2,045.91	8,954.81	41,098.92
Steam or hydraulic plant	363,515.96			
Old plant				
Total plant	541,217.18	157,148.38	228,024.13	2,273,004.02
Bank and cash balance	26,543.71	3,773.66	4,757.96	
Securities and investments	37,800.00	55,000.00	61,000.00	
Accounts receivable	5,218.75	1,458.06	8,436.55	88,962.28
Inventories	145.64	230.31	28,262.51	46,867.28
Sinking fund on local debentures				
Equity in H-E.P.C. systems	3,885.90	128,978.27	153,892.51	845,723.11
Other assets		1,200.00		2,928.92
Frequency standardization expendi- ture in suspense				
Total assets	614,811.18	347,788.68	484,373.66	3,257,485.61
LIABILITIES				
Debenture balance	1,713.43			244,600.00
Accounts payable	1,386.06			65,258.33
Bank overdraft				114,113.67
Other liabilities	6,750.66	1,137.50	3,753.39	931.06
Total liabilities	9,850.15	1,137.50	3,753.39	424,903.06
RESERVES				
For equity in H-E.P.C. systems	3,885.90	128,978.27	153,892.51	845,723.11
For depreciation	118,680.00	60,848.44	74,810.98	441,498.01
Other reserves	59.88	891.36	6,495.96	1,284.11
Total reserves	122,625.78	190,718.07	235,199.45	1,288,505.23
SURPLUS				
Debentures paid	386,786.57	36,982.95	85,045.30	506,010.67
Local sinking fund				
Operating surplus	95,548.68	118,950.16	160,375.52	1,038,066.65
Net frequency standardization ex- pense charged this year				
Total surplus	482,335.25	155,933.11	245,420.82	1,544,077.32
Total liabilities, reserves, and surplus ..	614,811.18	347,788.68	484,373.66	3,257,485.61
Percentage of net debt to total assets less equity in H-E.P.C. systems	1.6	0.5	1.1	17.6

Utilities as at December 31, 1951

Petrolia 3,118	Picton 4,103	Plattsville 402	Point Edward 1,787	Port Colborne 8,300	Port Credit 3,651	Port Dalhousie 2,462
\$	\$	\$	\$	\$	\$	\$
39,017.89	15,061.79			30,501.60	675.00	6,000.00
5,971.75	52,552.35					
71,881.79	64,267.60	8,698.94	46,542.25	124,519.43	89,425.86	47,094.05
49,119.53	33,612.08	6,452.98	18,176.25	58,022.66	45,115.01	29,189.05
25,778.08	33,272.99	3,523.05	16,321.93	44,195.52	27,443.69	20,756.80
10,615.35	11,310.29	171.79	6,750.75	6,682.41	8,564.41	2,934.34
9,699.43	1,149.75		2,410.97	11,553.21	3,504.90	5,002.06
212,083.82	211,226.85	18,846.76	90,202.15	275,474.83	174,728.87	110,976.30
50.00	10,933.82	3,428.01	7,572.29	4,368.09	5,137.02	748.90
	3,500.00	4,500.00	13,000.00	105,000.00	1,000.00	
3,377.84	694.28	591.12	5,024.35	200.41	4,067.60	8,329.83
20,058.58	9,877.33		6,387.64	1,695.24	6,257.29	837.85
196,665.10	125,553.99	20,682.03	151,080.07	207,247.95	92,569.45	82,937.10
13.32				164.80		
		35.00			306.15	
432,248.66	361,786.27	48,082.92	273,266.50	594,151.32	284,066.38	203,829.98
					34,770.84	14,051.08
7,595.45	1,410.94	179.79	1,897.50		7,938.94	1,122.08
4,952.17						
1,622.56	5,790.85		732.19	4,745.59	1,516.40	1,881.78
14,170.18	7,201.79	179.79	2,629.69	4,745.59	44,226.18	17,054.94
196,665.10	125,553.99	20,682.03	151,080.07	207,247.95	92,569.45	82,937.10
54,901.44	53,818.16	1,757.59	19,901.98	71,389.24	33,997.06	13,157.29
92.34			58.64	222.62	550.00	214.16
251,658.88	179,372.15	22,439.62	171,040.69	278,859.81	127,116.51	96,308.55
50,000.00	3,182.32	5,237.00	17,000.00	146,000.00	19,729.16	25,448.92
124,078.53	172,030.01	20,226.51	87,438.99	164,545.92	92,994.53	65,017.57
7,658.93			4,842.87			
166,419.60	175,212.33	25,463.51	99,596.12	310,545.92	112,723.69	90,466.49
432,248.66	361,786.27	48,082.92	273,266.50	594,151.32	284,066.38	203,829.98
6.0	0.3	0.7	2.2	1.2	23.1	14.1

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Port Dover	Port Elgin	Port Hope	Port McNicol	Port Perry
Population	2,385	1,610	6,327	853	1,725
ASSETS	\$	\$	\$	\$	\$
• Lands and buildings	248.75	1,311.25	18,572.07		2,564.65
Substation equipment			27,774.64		35,908.91
Distribution system—overhead	60,474.89	40,557.70	98,038.76	20,018.81	
Distribution system—underground					
Line transformers	33,100.65	21,767.40	57,832.00	4,433.78	12,996.95
Meters	22,191.02	16,014.54	56,459.09	6,070.16	10,525.79
Street light equipment, regular	3,851.55	3,388.12	11,173.00	737.00	2,546.36
Street light equipment, ornamental					
Miscellaneous construction expense	1,283.01	2,045.70	7,678.71	219.94	99.94
Steam or hydraulic plant					
Old plant					
Total plant	121,149.87	85,084.71	277,528.27	31,479.69	64,642.60
Bank and cash balance	1,482.01	8,260.60	15,864.07	1,269.29	7,179.33
Securities and investments		4,500.00		1,000.00	16,000.00
Accounts receivable	4,034.58	462.62	4,845.04	580.47	428.25
Inventories		266.00	16,845.44	314.64	
Sinking fund on local debentures					
Equity in H-E.P.C. systems	59,508.45	37,425.31	163,891.49	12,893.50	39,268.68
Other assets	144.50				2,085.60
Frequency standardization expenditure in suspense	151.00				
Total assets	186,470.41	135,999.24	478,974.31	47,537.59	129,604.46
LIABILITIES					
Debenture balance			15,000.00	2,400.00	
Accounts payable	4,325.71	738.54	1,233.34	328.58	1,056.46
Bank overdraft					
Other liabilities	917.30		14,834.52	316.10	615.55
Total liabilities	5,243.01	738.54	31,067.86	3,044.68	1,672.01
RESERVES					
For equity in H-E.P.C. systems	59,508.45	37,425.31	163,891.49	12,893.50	39,268.68
For depreciation	34,068.14	13,720.78	55,732.20	5,001.43	6,172.85
Other reserves					
Total reserves	93,576.59	51,146.09	219,623.69	17,894.93	45,441.53
SURPLUS					
Debentures paid	29,000.00	37,787.00	78,630.64	7,403.58	19,881.66
Local sinking fund					
Operating surplus	58,650.81	46,327.61	149,652.12	19,194.40	62,609.26
Net frequency standardization expense charged this year					
Total surplus	87,650.81	84,114.61	228,282.76	26,597.98	82,490.92
Total liabilities, reserves, and surplus	186,470.41	135,999.24	478,974.31	47,537.59	129,604.46
Percentage of net debt to total assets, less equity in H-E.P.C. systems	4.1	0.7	9.9	8.8	1.9

Utilities as at December 31, 1951

Port Rowan 783	Port Stanley 1,205	Prescott 3,449	Preston 7,518	Priceville 153	Princeton 334	Queenston 332
\$	\$	\$	\$	\$	\$	\$
18,373.00	52,958.29	64,523.42	114,884.67	10,183.38	5,393.21	11,651.88
8,391.31	29,308.00	31,358.22	98,312.44	2,706.93	5,331.80	4,509.75
4,603.13	20,329.41	27,058.08	56,453.77	949.86	2,840.27	2,947.85
1,243.62	3,505.52	8,578.87	11,171.69	854.96	525.42	612.95
494.14	910.17	6,495.62	8,154.87			87.89
33,105.20	108,585.99	140,775.75	458,951.84	14,763.13	14,090.70	19,810.32
242.61	1,893.73	26,834.71	18,481.74	2,127.50	6,045.45	1,574.08
948.96	13,000.00				7,000.00	6,500.00
	1,164.43	1,650.99	14,026.47	6.94	86.38	294.83
	255.32		28,309.49			
15,376.78	87,600.10	110,435.06	513,771.66	1,992.53	20,424.22	14,123.19
10.00			1,701.91			
84.18	10.00		27,940.65		24.00	
49,767.73	212,509.57	279,696.51	1,063,183.7	18,890.10	47,670.75	42,302.42
		11,000.00	175,000.00	5,625.00		
1,778.18	1,787.74	5,072.17	21,947.85	1,527.13	179.65	100.00
290.00	293.00	854.40	2,463.24			85.00
2,068.18	2,080.74	16,926.57	199,411.09	7,152.13	179.65	185.00
15,376.78	87,600.10	110,435.06	513,771.66	1,992.53	20,424.22	14,123.19
4,267.31	25,546.01	57,560.98	133,050.80	1,836.34	4,779.28	4,802.12
	40.16		339.76			
19,644.09	113,186.27	167,996.04	647,162.22	3,828.87	25,203.50	18,925.31
11,000.00	18,950.00	13,170.99	152,800.00	6,541.10	3,550.00	9,500.00
17,055.46	78,292.56	81,602.91	63,810.45	1,368.00	18,737.60	13,692.11
28,055.46	97,242.56	94,773.90	216,610.45	7,909.10	22,287.60	23,192.11
49,767.73	212,509.57	279,696.51	1,063,183.76	18,890.10	47,670.75	42,302.42
6.0	1.7	10.0	36.3	42.3	0.7	0.7

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Renfrew	Richmond	Richmond Hill	Ridgetown	Ripley
Population	7,368	570	2,228	2,275	454
ASSETS	\$	\$	\$	\$	\$
Lands and buildings	9,393.89			4,478.15	
Substation equipment	34,619.88		600.00	1,024.24	
Distribution system—overhead	81,585.46	9,145.91	31,079.03	40,914.27	14,525.64
Distribution system—underground					
Line transformers	68,375.55	4,889.11	32,918.61	23,555.02	7,412.59
Meters	49,536.30	3,190.02	17,272.66	14,984.75	3,919.70
Street light equipment, regular	37,694.75	305.43	3,995.42	8,184.68	1,100.38
Street light equipment, ornamental					
Miscellaneous construction expense	10,512.39	31.86	93.00	1,026.69	
Steam or hydraulic plant	496,757.35				
Old plant					
Total plant	788,475.57	17,562.33	85,958.72	94,167.80	26,958.31
Bank and cash balance	39,341.75		3,516.32	3,611.03	3,295.02
Securities and investments	150,000.00				
Accounts receivable	19,812.00	370.29	467.28	437.44	33.15
Inventories	14,590.56			511.79	
Sinking fund on local debentures					
Equity in H-E.P.C. systems	13,632.48	8,167.32	48,298.08	85,643.74	17,171.79
Other assets	8,590.28				
Frequency standardization expenditure in suspense				471.61	
Total assets	1,034,442.64	26,099.94	138,240.40	184,843.41	47,458.27
LIABILITIES					
Debenture balance	227,797.97		10,000.00		
Accounts payable	10,941.14	1,392.33	3,412.23	2,737.65	
Bank overdraft		31.91			
Other liabilities		151.87	1,145.74	900.00	569.83
Total liabilities	238,739.11	1,576.11	14,557.97	3,637.65	569.83
RESERVES					
For equity in H-E.P.C. systems	13,632.48	8,167.32	48,298.08	85,643.74	17,171.79
For depreciation	130,785.36	3,717.44	4,695.14	17,132.63	4,144.60
Other reserves	3,270.67		112.37	197.75	
Total reserves	147,688.51	11,884.76	53,105.59	102,974.12	21,316.39
SURPLUS					
Debentures paid	483,438.76	5,887.33	12,200.00	19,455.99	12,744.49
Local sinking fund					
Operating surplus	164,576.26	6,751.74	63,480.16	58,775.65	12,827.56
Net frequency standardization expense charged this year			5,103.32		
Total surplus	648,015.02	12,639.07	70,576.84	78,231.64	25,572.05
Total liabilities, reserves, and surplus	1,034,442.64	26,099.94	138,240.40	184,843.41	47,458.27
Percentage of net debt to total assets less equity in H-E.P.C. systems	23.4	8.7	16.2	3.7	1.9

Utilities as at December 31, 1951

Riverside 9,535	Rockwood 683	Rodney 913	Rosseau 197	Russell 475	St. Catharines 38,146	St. Clair Beach 528
\$	\$	\$	\$	\$	\$	\$
12,861.37					31,662.35	
7,859.98					366,813.72	
157,897.95	12,689.21	14,527.23	9,009.51	14,932.88	547,648.81	15,430.83
57,750.13	5,212.77	8,376.63	2,743.16	4,518.40	415,367.57	6,391.09
64,576.79	5,656.67	7,584.46	1,478.53	3,316.43	278,790.75	4,220.31
	1,376.34	4,068.11	623.60	1,539.49	39,230.83	1,485.48
15,422.98		68.79	1,067.16	40.27	36,249.75	
					4,731.00	
316,369.20	24,934.99	34,625.22	14,921.96	24,347.47	1,720,494.78	27,527.71
2,244.75	3,088.83	3,675.66	2,497.05	2,867.23	200.00	250.90
	3,300.00	8,200.00	1,500.00	1,000.00	150,000.00	3,000.00
10,274.42	3.47	769.96	113.80	1,018.82	107,930.03	632.89
13,451.16	88.83				76,710.83	
173,588.80	22,480.53	27,664.73	8,384.60	12,090.90	1,577,787.77	14,415.16
55.00	6.67				438.99	
		10.00				
515,983.33	53,903.32	74,945.57	27,417.41	41,324.42	3,633,562.40	45,826.66
45,000.00			2,077.97			
3,542.83	94.14	902.75	869.66	866.08	197,071.71	50.00
					4,377.32	
3,046.87	228.72	365.00		115.00	23,757.00	125.00
51,589.70	322.86	1,267.75	2,947.63	981.08	225,206.03	175.00
173,588.80	22,480.53	27,664.73	8,384.60	12,090.90	1,577,787.77	14,415.16
69,445.75	9,764.18	10,527.34	4,359.55	1,617.88	414,442.91	8,016.18
135.37		73.15	68.74		3,190.38	34.74
243,169.92	32,244.71	38,265.22	12,812.89	13,708.78	1,995,421.06	22,466.08
82,500.00	4,500.00	8,500.00	10,922.03	8,808.12	302,022.91	6,341.45
138,723.71	16,835.75	26,912.60	734.86	17,826.44	1,118,931.82	16,844.13
					8,019.42	
221,223.71	21,335.75	35,412.60	11,656.89	26,634.56	1,412,935.31	23,185.58
515,983.33	53,903.32	74,945.57	27,417.41	41,324.42	3,633,562.40	45,826.66
15.1	1.0	2.7	15.5	3.4	11.0	0.5

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	St. George	St. Jacobs	St. Marys	St. Thomas
Population	631	705	4,112	18,775
ASSETS	\$	\$	\$	\$
Lands and buildings			21,373.50	150,380.86
Substation equipment			42,897.82	173,448.15
Distribution system—overhead	8,499.16	10,134.07	94,129.22	173,948.89
Distribution system—underground				101,034.54
Line transformers	8,050.69	8,554.47	54,970.24	111,695.60
Meters	5,055.75	5,652.79	36,454.04	95,862.06
Street light equipment, regular	2,302.03	493.20	8,626.78	37,951.09
Street light equipment, ornamental				
Miscellaneous construction expense		49.00	27,283.98	9,174.72
Steam or hydraulic plant				
Old plant				
Total plant	23,907.63	24,883.53	285,735.58	853,495.91
Bank and cash balance	9,438.78	5,324.56	8,563.65	300.00
Securities and investments	6,000.00	10,000.00		30,000.00
Accounts receivable	1,082.83	154.58	3,268.08	32,153.05
Inventories			10,382.21	46,873.94
Sinking fund on local debentures				
Equity in H-E.P.C. systems	27,990.69	35,162.67	259,804.56	992,145.64
Other assets		10.00	797.59	575.30
Frequency standardization expenditure in suspense			30,368.03	30,610.82
Total assets	68,419.93	75,535.34	598,919.70	1,986,154.66
LIABILITIES				
Debenture balance			76,978.08	
Accounts payable	39.10	399.66	138.43	
Bank overdraft				21,876.46
Other liabilities	340.00		1,564.00	26,956.34
Total liabilities	379.10	399.66	78,680.51	48,832.80
RESERVES				
For equity in H-E.P.C. systems	27,990.69	35,162.67	259,804.56	992,145.64
For depreciation	1,996.91	5,889.67	83,273.45	289,164.05
Other reserves			701.02	336.10
Total reserves	29,987.60	41,052.34	343,779.03	1,281,645.79
SURPLUS				
Debentures paid	6,000.00	6,000.00	117,282.30	138,944.07
Local sinking fund				
Operating surplus	32,053.23	28,083.34	59,177.86	516,732.00
Net frequency standardization expense charged this year				
Total surplus	38,053.23	34,083.34	176,460.16	655,676.07
Total liabilities, reserves, and surplus	68,419.93	75,535.34	598,919.70	1,986,154.66
Percentage of net debt to total assets less equity in H-E.P.C. systems	0.9	1.0	23.2	0.5

Utilities as at December 31, 1951

Sarnia 33,976	Scarborough Twp. 56,161	Seaforth 2,121	Shelburne 1,274	Simcoe 7,085	Smiths Falls 8,339
\$	\$	\$	\$	\$	\$
205,534.71	39,869.27	1,836.39	800.00	11,905.59	63,828.34
251,695.93	72,676.86	23,939.30	566.60	76,089.92	52,804.01
340,508.11	893,227.58	47,188.04	28,582.62	95,626.16	130,564.01
239,171.20				1,412.24	
194,970.78	443,257.03	29,620.81	18,274.51	80,993.46	65,771.65
193,550.99	312,257.52	16,622.69	12,165.34	59,863.95	56,931.19
45,064.74	87,642.87	6,694.37	9,237.44	38,481.51	29,139.71
108,580.07	46,055.87	2,942.38	239.38	12,310.59	6,453.90
†380,924.00					
1,960,000.53	1,894,987.00	128,843.98	69,865.89	376,683.42	405,492.81
13,853.42	125,497.79	3,960.51		30.00	671.73
15,000.00		9,000.00	7,500.00		17,000.00
64,804.81	50,875.34	5,317.48	357.70	5,870.14	2,533.54
97,290.99	163,710.33	719.26	1.53	23,983.86	9,974.34
1,289,228.06	549,015.28	123,970.50	39,309.01	245,458.69	231,972.86
21,984.40	400.00	159.20		577.80	
48,225.96		17,482.21		2,079.00	
3,510,388.17	2,784,485.74	289,453.14	117,034.13	654,682.91	667,645.28
371,000.00	851,000.00	44,626.51			
345,611.61	121,462.49	5,444.30	144.84	4,074.47	6,252.77
116,031.20			1,636.06	7,510.88	
21,053.42	177,851.51	753.78	81.00	3,404.42	499.35
853,696.23	1,150,314.00	50,824.59	1,861.90	14,989.77	6,752.12
1,289,228.06	549,015.28	123,970.50	39,309.01	245,458.69	231,972.86
355,080.84	241,386.88	18,154.42	21,644.34	82,560.37	103,477.14
17,466.25	24,161.63	221.31			214.02
1,661,775.15	814,563.79	142,346.23	60,953.35	328,019.06	335,664.02
367,000.00	314,568.27	30,373.49	16,991.04	75,434.90	122,787.33
659,633.91	638,804.37	65,908.83	37,227.84	236,239.18	202,441.81
31,717.12	133,764.69				
994,916.79	819,607.95	96,282.32	54,218.88	311,674.08	325,229.14
3,510,388.17	2,784,485.74	289,453.14	117,034.13	654,682.91	667,645.28
38.4	52.0	30.7	2.4	3.7	1.5

† Annexed plant undistributed.

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Smithville	Southamp- ton	Springfield	Stamford Twp.
Population	658	1,619	517	18,225
ASSETS	\$	\$	\$	\$
Lands and buildings		25.00		34,351.96
Substation equipment				125,846.94
Distribution system—overhead	16,265.23	47,159.73	14,698.82	347,361.48
Distribution system—underground				
Line transformers	6,410.81	28,451.12	6,542.55	178,516.15
Meters	6,412.56	16,460.30	3,224.82	116,280.69
Street light equipment, regular	1,871.10	7,587.44	1,512.09	27,225.16
Street light equipment, ornamental				
Miscellaneous construction expense	1,949.90	748.89	174.20	21,495.85
Steam or hydraulic plant				
Old plant				
Total plant	32,909.60	100,432.48	26,152.48	851,078.23
Bank and cash balance	5,078.86	493.16	3,449.56	2,588.65
Securities and investments	12,500.00		1,500.00	6,000.00
Accounts receivable	818.39	1,454.97	105.10	41,475.82
Inventories	715.92			38,142.44
Sinking fund on local debentures				
Equity in H-E.P.C. systems	8,957.97	35,960.57	17,384.44	218,232.65
Other assets				1,538.08
Frequency standardization expendi- ture in suspense			36.76	1,975.00
Total assets	60,980.74	138,341.18	48,628.34	1,161,030.87
LIABILITIES				
Debenture balance				251,430.34
Accounts payable	55.50	6,185.15	147.44	54,652.30
Bank overdraft				11,055.51
Other liabilities	35.00	154.17	15.00	8,318.65
Total liabilities	90.50	6,339.32	162.44	325,456.80
RESERVES				
For equity in H-E.P.C. systems	8,957.97	35,960.57	17,384.44	218,232.65
For depreciation	8,109.98	5,954.88	5,502.46	166,549.85
Other reserves				3,511.31
Total reserves	17,067.95	41,915.45	22,886.90	388,293.81
SURPLUS				
Debentures paid	15,000.00	30,522.93	9,500.00	263,847.83
Local sinking fund				
Operating surplus	28,822.29	59,563.48	16,079.00	183,432.43
Net frequency standardization ex- pense charged this year				
Total surplus	43,822.29	90,086.41	25,579.00	447,280.26
Total liabilities, reserves, and surplus	60,980.74	138,341.18	48,628.34	1,161,030.87
Percentage of net debt to total assets, less equity in H-E.P.C. systems	0.2	6.2	0.5	34.5

Utilities as at December 31, 1951

Stayner 1,241	Stirling 1,157	Stoney Creek 1,805	Stouffville 1,701	Stratford 18,878	Strathroy 3,688
\$	\$	\$	\$	\$	\$
200.00	9,266.88			141,941.92	9,373.61
22,797.33	16,790.84			249,295.32	50,924.89
	12,094.33	39,428.40	23,536.38	173,148.07	72,081.21
				22,971.15	
13,890.46	9,655.06	30,800.38	19,186.83	157,243.93	50,061.40
12,206.11	9,264.04	17,756.37	10,028.80	123,029.66	26,207.15
2,820.41	3,559.79	4,713.38	2,427.90	27,840.67	8,809.38
742.63	688.84	222.64	416.39	44,788.62	1,211.16
52,656.94	61,319.78	92,921.17	55,596.30	940,259.34	218,668.80
7,279.42	12,596.47	2,728.15	213.98	33,064.97	4,109.03
11,000.00			4,000.00	337,000.00	
698.51	1,505.35	454.35	131.35	33,788.69	1,376.88
	1,381.56			47,278.66	637.94
				42,375.49	
35,241.34	21,685.93	5,514.66	39,383.81	1,141,474.08	183,483.80
				3,298.17	840.18
				10.00	21,412.86
106,876.21	98,489.09	101,618.33	99,325.44	2,578,549.40	430,529.49
		35,606.42		50,000.00	
443.06	46.04	14,099.53			32.67
413.18	411.93	615.00	804.66	7,497.34	1,591.59
856.24	457.97	50,320.95	804.66	57,497.34	1,624.26
35,241.34	21,685.93	5,514.66	39,383.81	1,141,474.08	183,483.80
16,415.14	12,692.22	4,741.03	2,718.95	497,090.05	64,961.43
25.20			50.96	3,368.08	129.30
51,681.68	34,378.15	10,255.69	42,153.72	1,641,932.21	248,574.53
9,557.26	10,000.00	4,393.58	14,673.90	405,800.00	53,888.85
				42,375.49	
44,781.03	53,652.97	36,648.11	46,708.73	430,944.36	126,441.85
			5,015.57		
54,338.29	63,652.97	41,041.69	56,367.06	879,119.85	180,330.70
106,876.21	98,489.09	101,618.33	99,325.44	2,578,549.40	430,529.49
1.2	0.6	52.4	1.3	4.0	0.7

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Streetsville	Sunderland	Sutton	Swansea
Population.....	1,100	521	1,235	8,080
ASSETS	\$	\$	\$	\$
Lands and buildings.....	12,226.15			6,383.14
Substation equipment.....	1,172.04			74,731.61
Distribution system—overhead.....	15,785.48	10,009.18	30,824.79	140,399.67
Distribution system—underground.....				
Line transformers.....	14,574.64	4,539.81	24,061.23	75,281.25
Meters.....	9,857.33	4,377.04	15,785.18	47,786.27
Street light equipment, regular.....	1,845.62	1,087.23	3,067.55	24,877.88
Street light equipment, ornamental.....				
Miscellaneous construction expense.....	177.73		1,422.79	27,725.32
Steam or hydraulic plant.....	10,641.55			
Old plant.....				
Total plant.....	66,280.54	20,013.26	75,161.54	397,185.14
Bank and cash balance.....	6,068.79	4,186.42	3,821.05	84,788.73
Securities and investments.....			7,000.00	
Accounts receivable.....	1,572.25	466.89	3,801.89	4,741.75
Inventories.....				533.32
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....	14,920.73	20,114.64	39,236.60	208,409.73
Other assets.....	75.16	100.00		217.84
Frequency standardization expenditure in suspense.....	75.00			20,633.91
Total assets.....	88,992.47	44,881.21	129,021.08	716,510.42
LIABILITIES				
Debenture balance.....				175,773.63
Accounts payable.....	522.21	150.06	4,006.05	4,167.49
Bank overdraft.....				
Other liabilities.....	410.65	15.00	15.00	5,887.20
Total liabilities.....	932.86	165.06	4,021.05	185,828.32
RESERVES				
For equity in H-E.P.C. systems.....	14,920.73	20,114.64	39,236.60	208,409.73
For depreciation.....	9,823.92	5,165.23	15,078.22	64,900.10
Other reserves.....	182.00	52.28	148.87	345.59
Total reserves.....	24,926.65	25,332.15	54,463.69	273,655.42
SURPLUS				
Debentures paid.....	17,545.08	4,627.78	25,325.00	76,893.33
Local sinking fund.....				
Operating surplus.....	45,587.88	14,756.22	50,151.19	180,133.35
Net frequency standardization expense charged this year.....			4,939.85	
Total surplus.....	63,132.96	19,384.00	70,536.34	257,026.68
Total liabilities, reserves, and surplus..	88,992.47	44,881.21	129,021.08	716,510.42
Percentage of net debt to total assets, less equity in H-E.P.C. systems.....	1.3	0.7	4.5	38.1

Utilities as at December 31, 1951

Tara 490	Tavistock 1,096	Tecumseh 3,497	Teeswater 854	Thamesford 546	Thamesville 950	Thedford 592
\$	\$	\$	\$	\$	\$	\$
16,849.84	3,783.53	3,668.80	2,139.28		1,083.57	
5,665.52	19,657.87	60,271.52	25,337.58	12,444.89	22,746.65	16,016.36
4,137.54	12,466.00	20,662.28	11,285.83	5,615.37	14,660.93	9,592.67
2,782.30	9,444.34	23,920.16	7,439.66	4,862.72	7,375.96	4,505.57
131.89	1,340.50		4,141.28	764.43	3,065.33	1,703.10
	1,705.58	1,329.79		371.5	1,051.62	228.35
29,567.09	48,397.82	109,852.55	50,343.63	24,059.26	49,984.06	32,046.05
5,424.96	1,890.11	8,766.61	1,637.08	1,069.70	2,449.36	1,553.71
55.76	4,000.00	10,000.00	11,000.00	2,000.00	3,000.00	8,000.00
	480.21	2,725.99	60.62	119.20	1,689.67	326.45
17,797.59	3,166.63	805.55				
	91,225.36	57,092.78	25,844.89	34,885.87	35,192.11	20,810.21
	18.00			192.53		4,750.04
52,845.40	149,178.13	189,243.48	88,886.22	62,326.56	92,315.20	67,486.46
25.00	126.66	602.41		397.77	5,212.61	394.28
		856.40	909.00	71.97	708.00	174.33
25.00	126.66	1,458.81	909.00	469.74	5,920.61	568.61
17,797.59	91,225.36	57,092.78	25,844.89	34,885.87	35,192.11	20,810.21
4,912.56	18,643.05	30,297.50	12,680.26	7,428.82	13,201.09	6,440.73
		494.01			143.38	
22,710.15	109,868.41	87,884.29	38,525.15	42,314.69	48,536.58	27,250.94
14,263.64	6,000.00	26,000.00	21,296.14	5,358.03	11,187.80	16,500.00
15,846.61	33,183.06	73,900.38	28,155.93	14,184.10	26,670.21	23,166.91
30,110.25	39,183.06	99,900.38	49,452.07	19,542.13	37,858.01	39,666.91
52,845.40	149,178.13	189,243.48	88,886.22	62,326.56	92,315.20	67,486.46
0.1	0.2	1.1	1.4	1.7	10.4	1.2

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Thornbury	Thorndale	Thornton	Thorold
Population	1,003	299	181	6,465
ASSETS	\$	\$	\$	\$
Lands and buildings				17,224.64
Substation equipment	4,404.73			51,484.52
Distribution system—overhead	23,777.36	8,995.43	8,176.47	93,716.12
Distribution system—underground				
Line transformers	12,028.48	3,663.40	3,029.41	50,709.94
Meters	8,345.77	2,989.35	1,533.35	42,990.65
Street light equipment, regular	1,944.98	417.81	560.01	11,471.66
Street light equipment, ornamental				
Miscellaneous construction expense	303.09			9,115.24
Steam or hydraulic plant	36,000.00			
Old plant				
Total plant	86,804.41	16,065.99	13,299.24	276,712.77
Bank and cash balance	2,875.13	683.21	126.28	50.00
Securities and investments		1,100.00		
Accounts receivable	753.58	468.53	136.82	10,039.29
Inventories	44.99	328.38		14,126.25
Sinking fund on local debentures				
Equity in H-E.P.C. systems	2,855.75	17,059.33	6,853.23	226,756.46
Other assets			173.73	
Frequency standardization expenditure in suspense		1,187.86		
Total assets	93,333.86	36,893.30	20,589.30	527,684.77
LIABILITIES				
Debenture balance	4,775.94			
Accounts payable	15,988.01	80.48	434.39	4,317.32
Bank overdraft				32,235.99
Other liabilities	25.00	44.57	50.00	3,166.50
Total liabilities	20,788.95	125.05	484.39	39,719.81
RESERVES				
For equity in H-E.P.C. systems	2,855.75	17,059.33	6,853.23	226,756.46
For depreciation	5,193.55	4,672.59	7,363.20	50,028.78
Other reserves		27.73		
Total reserves	8,049.30	21,759.65	14,216.43	276,785.24
SURPLUS				
Debentures paid	51,224.06	3,086.48	7,199.65	5,000.00
Local sinking fund				
Operating surplus	13,271.55	11,922.12	1,311.17	206,179.72
Net frequency standardization expense charged this year				
Total surplus	64,495.61	15,008.60	5,888.48	211,179.72
Total liabilities, reserves, and surplus	93,333.86	36,893.30	20,589.30	527,684.77
Percentage of net debt to total assets less equity in H-E.P.C. systems	23.0	0.6	3.5	13.2

Tilbury 2,848	Tillsonburg 5,202	Toronto 653,499	Toronto Twp. 23,303	Tottenham 577	Trafalgar Twp. (V.A.)
\$ 11,987.47	\$ 30,585.55	\$ 6,282,197.84	\$ 121,941.28	\$	\$ 13,096.98
36,002.96	68,860.78	19,027,939.92	42,920.11
.....	94,988.03	8,562,999.64	588,480.44	14,563.12	97,530.24
31,363.22	5,272,156.89	5,709,596.34	319,251.17	6,077.65	53,213.87
15,987.83	71,881.24	3,709,504.99	146,671.37	4,323.30	27,526.17
18,443.73	44,294.73	917,589.14	39,097.77	1,699.21	192.54
.....	31,896.76
2,253.07	18,308.41	3,053,272.29	64,304.10	809.91	9,250.21
.....
116,038.28	360,815.50	52,535,257.05	1,322,666.24	27,473.19	200,810.01
10,258.41	200.00	254,307.73	34,228.33	11,147.69
.....	*8,340,000.00	8,300.00	200.00
582.94	1,326.77	3,174,555.57	47,747.11	256.48	2,565.34
6.22	8,560.63	2,324,609.45	82,387.02	16,324.33
109,771.63	185,492.38	41,014,432.64	297,969.08	21,939.65	32,511.17
119.10	929.64	221,029.25	10,137.75	180.00	72.36
15.00	7,367.15
236,791.58	557,324.92	107,864,191.69	1,810,802.68	49,849.32	263,630.90
.....	125,471.00	118,500.00	615,359.88	8,338.12	75,885.06
648.84	1,838,654.70	85,569.42	53.09	29,777.07
.....	13,946.16	466.43
202.25	5,370.74	189,505.65	9,767.52	303.25	2,015.00
851.09	144,787.90	2,146,660.35	710,696.82	9,160.89	107,677.13
109,771.63	185,492.38	41,014,432.64	297,969.08	21,939.65	32,511.17
34,753.03	44,038.33	19,974,474.58	212,674.08	3,218.33	30,717.88
148.60	151.09	3,930,052.35	2,488.42	315.00
144,673.26	229,681.80	64,918,959.57	513,131.58	25,157.98	63,544.05
14,000.00	40,529.00	29,398,095.29	113,640.12	13,096.85	33,002.50
77,267.23	142,326.22	11,400,476.48	473,334.16	2,433.60	59,407.22
.....
91,267.23	182,855.22	40,798,571.77	586,974.28	15,530.45	92,409.72
236,791.58	557,324.92	107,864,191.69	1,810,802.68	49,849.32	263,630.90
0.7	38.9	3.2	47.2	32.8	46.6

* Estimated market value Dec. 31, 1951.

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Trenton	Tweed	Uxbridge	Victoria Harbour
Population	9,993	1,600	2,028	958
ASSETS	\$	\$	\$	\$
Lands and buildings	6,604.06			
Substation equipment	78,039.03		2,657.65	
Distribution system—overhead	168,960.96	30,933.54	28,360.63	15,067.11
Distribution system—underground				
Line transformers	65,435.41	15,578.87	13,002.04	4,031.88
Meters	65,163.26	11,065.20	11,973.11	6,394.73
Street light equipment, regular	28,306.30	4,302.73	6,944.70	540.10
Street light equipment, ornamental				
Miscellaneous construction expense	7,930.80	20.25	504.68	197.44
Steam or hydraulic plant				
Old plant				
Total plant	420,439.82	61,900.59	63,442.81	26,231.26
Bank and cash balance	11,844.19	12,364.93	11,155.00	2,125.55
Securities and investments	105,500.00	23,000.00	10,000.00	1,500.00
Accounts receivable	2,899.54	1,940.85	621.43	269.61
Inventories	13,535.75	1,082.34	81.40	
Sinking fund on local debentures				
Equity in H-E.P.C. systems	240,443.58	26,877.24	43,542.31	13,049.26
Other assets	48.48		635.40	130.00
Frequency standardization expenditure in suspense				
Total assets	794,711.36	127,165.95	129,478.35	43,305.68
LIABILITIES				
Debenture balance				
Accounts payable		1,210.42	1,352.13	
Bank overdraft				
Other liabilities	6,532.33	454.49	1,147.00	
Total liabilities	6,532.33	1,664.91	2,499.13	
RESERVES				
For equity in H-E.P.C. systems	240,443.58	26,877.24	43,542.31	13,049.26
For depreciation	125,724.30	4,087.01	9,214.48	8,064.74
Other reserves		129.46	184.37	
Total reserves	366,167.88	31,093.71	52,941.16	21,114.00
SURPLUS				
Debentures paid	164,586.70	19,000.00	15,364.09	5,878.70
Local sinking fund				
Operating surplus	257,424.45	75,407.33	58,673.97	16,312.98
Net frequency standardization expense charged this year				
Total surplus	422,011.15	94,407.33	74,038.06	22,191.68
Total liabilities, reserves, and surplus ..	794,711.36	127,165.95	129,478.35	43,305.68
Percentage of net debt to total assets, less equity in H-E.P.C. systems	1.2	1.7	2.9	0.0

Utilities as at December 31, 1951

Walkerton 3,313	Wallaceburg 7,352	Wardsville 365	Warkworth 522	Waterdown 1,361	Waterford 1,665
\$ 47.92	\$ 56,896.05	\$	\$	\$ 200.00	\$ 1,353.44
62,677.42	92,638.16 152,921.31	8,116.70	8,353.73	27,825.75	20,690.69
40,111.76	107,126.51	3,338.97	3,932.78	14,179.89	18,240.80
24,979.24	55,343.57	2,746.89	3,375.83	9,835.99	12,575.29
8,597.69	16,052.52	662.94	642.00	1,901.14	3,607.91
3,301.06	7,503.56	100.62	609.19	1,418.61	1,719.55
			3,618.02		
139,715.09	488,481.68	14,966.12	20,531.55	55,361.38	58,187.68
6,063.02	75.00	365.47	25.22		2,870.08
40,000.00	70,500.00	3,000.00	4,200.00	2,000.00	11,000.00
791.34	14,340.30	1,087.36	81.36	450.76	375.59
1,486.67	40,633.75				
58,522.19	439,470.90	8,026.65	8,880.83	43,131.50	64,000.81
1,235.31	6.96			127.24	15.00
	23,622.82				
247,813.62	1,077,131.41	27,445.60	33,718.96	101,070.88	136,449.16
			2,136.11		
189.92	197.75	33.67	1,891.86	456.68	164.04
	19,285.74			309.33	
683.00	4,103.01		21.20	139.28	288.00
872.92	23,586.50	33.67	4,049.17	905.29	452.04
58,522.19	439,470.90	8,026.65	8,880.83	43,131.50	64,000.81
13,907.37	119,385.70	4,332.68	6,330.21	14,141.85	17,011.03
26.85	2,361.92	25.22			
72,456.41	561,218.52	12,384.55	15,211.04	57,273.35	81,011.84
56,748.57	71,536.58	7,562.40	8,863.89	8,000.00	7,745.53
117,735.72	420,789.81	7,464.98	5,594.86	34,892.24	47,239.75
174,484.29	492,326.39	15,027.38	14,458.75	42,892.24	54,985.28
247,813.62	1,077,131.41	27,445.60	33,718.96	101,070.88	136,449.16
0.5	3.7	0.2	16.3	1.6	0.6

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Waterloo	Watford	Waubashene (V.A.)	Welland
Population	11,947	1,149		15,972
ASSETS	\$	\$	\$	\$
Lands and buildings	22,006.05	14,341.81		98,623.33
Substation equipment	155,314.84			171,398.03
Distribution system—overhead	178,310.38	19,836.14	13,402.97	235,490.74
Distribution system—underground				9,495.59
Line transformers	127,656.03	9,600.33	4,926.00	156,861.08
Meters	72,067.89	9,162.47	5,106.73	119,786.73
Street light equipment, regular	24,004.33	2,824.74	471.57	48,986.25
Street light equipment, ornamental				
Miscellaneous construction expense	23,768.44	431.49	21.00	17,564.83
Steam or hydraulic plant				
Old plant				5,976.68
Total plant	603,127.96	56,196.98	23,928.27	864,183.26
Bank and cash balance	200.00	5,923.23		20,433.55
Securities and investments		8,000.00		63,000.00
Accounts receivable	7,698.45	572.45	1,074.01	4,584.90
Inventories	52,320.42	961.48		33,561.54
Sinking fund on local debentures				
Equity in H-E.P.C. systems	571,152.77	52,264.19	10,515.48	709,810.00
Other assets	1,439.17	11.66	19.47	219.26
Frequency standardization expenditure in suspense	428.40			909.00
Total assets	1,236,367.17	123,929.99	35,537.23	1,696,701.51
LIABILITIES				
Debenture balance	100,000.00			
Accounts payable	8,096.12	5,778.33	552.28	21,295.54
Bank overdraft	9,173.09		108.81	
Other liabilities	6,450.00	382.10	200.00	17,549.56
Total liabilities	123,719.21	6,160.43	861.09	38,845.10
RESERVES				
For equity in H-E.P.C. systems	571,152.77	52,264.19	10,515.48	709,810.00
For depreciation	214,065.32	14,383.63	3,973.11	284,846.37
Other reserves	371.03	57.42	125.00	1,629.18
Total reserves	785,589.12	66,705.24	14,613.59	996,285.55
SURPLUS				
Debentures paid	106,000.00	9,055.77	3,242.34	275,000.00
Local sinking fund				
Operating surplus	221,058.84	45,414.21	16,820.21	386,570.86
Net frequency standardization expense charged this year		3,405.66		
Total surplus	327,058.84	51,064.32	20,062.55	661,570.86
Total liabilities, reserves, and surplus	1,236,367.17	123,929.99	35,537.23	1,696,701.51
Percentage of net debt to total assets less equity in H-E.P.C. systems	18.6	8.6	3.4	3.9

Utilities as at December 31, 1951

Wellesley 560	Wellington 993	West Lorne 1,036	Weston 8,088	Westport 716	Wheatley 1,006	Whitby 7,268
\$	\$	\$	\$	\$	\$	\$
225.00	225.00	22,593.56	22,455.44	52.50	52.50	91,586.94
499.80	499.80		128,312.07			34,288.16
10,157.52	17,878.54	18,573.67	181,161.32	9,790.30	28,895.73	99,192.62
5,266.54	11,177.49	12,594.39	109,714.25	4,235.72	17,313.48	35,917.85
4,913.17	9,993.22	7,911.90	59,087.56	3,722.59	9,884.61	36,794.33
907.47	4,466.59	4,089.38	17,390.11	886.70	9,630.39	14,982.79
767.34	231.10	316.16	7,345.68	1,323.95	1,067.42	13,785.17
						1,340.13
22,012.04	44,471.74	66,079.06	525,466.43	19,959.26	66,844.13	327,887.99
4,704.04	2,332.01	2,770.72	1,073.28	428.76	2,981.28	23,043.17
6,000.00	14,500.00			3,500.00		
	350.03	685.25	9,762.58	33.25	150.16	5,499.65
		611.61	16,795.11			10,361.17
30,001.90	23,809.76	51,085.75	496,710.67	13,037.02	31,649.37	120,117.53
			974.80			36.44
		5.00	226.38			
62,717.98	85,463.54	121,237.39	1,051,009.25	36,958.29	101,624.94	486,945.95
			75,500.00		8,550.53	302.24
1,203.09		262.50	7,195.41	256.26	592.68	3,815.49
			9,817.24			
5.00	46.25	87.00	2,922.52	342.42	140.00	3,532.53
1,208.09	46.25	349.50	95,435.17	598.68	9,283.21	7,650.26
30,001.90	23,809.76	51,085.75	496,710.67	13,037.02	31,649.37	120,117.53
6,341.44	4,709.51	15,451.46	90,337.72	3,458.72	12,314.75	70,314.96
		65.12	953.55		44.30	
36,343.34	28,519.27	66,602.33	588,001.94	16,495.74	44,008.42	190,432.49
7,500.00	13,816.12	8,000.00	71,032.44	15,000.00	13,449.47	76,310.26
17,666.55	43,081.90	46,285.56	296,539.70	4,863.87	34,883.84	212,552.94
25,166.55	56,898.02	54,285.56	367,572.14	19,863.87	48,333.31	288,863.20
62,717.98	85,463.54	121,237.39	1,051,009.25	36,958.29	101,624.94	486,945.95
3.7	0.1	0.5	17.2	2.5	13.3	2.1

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Warton	Williams- burg	Winchester	Windermere
Population	2,042	264	1,175	140
ASSETS	\$	\$	\$	\$
Lands and buildings			299.85	
Substation equipment	333.57			
Distribution system—overhead	33,642.43	8,902.61	20,701.14	11,009.57
Distribution system—underground				
Line transformers	17,511.83	4,864.35	11,501.80	7,309.24
Meters	13,755.40	2,831.72	9,178.13	2,142.36
Street light equipment, regular	4,449.95	1,699.78	3,107.89	247.26
Street light equipment, ornamental				
Miscellaneous construction expense ..	5,094.36	35.38	102.50	525.65
Steam or hydraulic plant				
Old plant	1,870.35			
Total plant	76,657.89	18,333.84	44,891.31	21,234.08
Bank and cash balance	10,180.21	1,082.67	5,567.31	878.75
Securities and investments	20,000.00	15,000.00	7,000.00	1,600.00
Accounts receivable	558.63	1,100.72	263.12	451.26
Inventories	61.75			
Sinking fund on local debentures				
Equity in H-E.P.C. systems	37,374.20	12,425.62	42,228.34	6,155.54
Other assets				114.46
Frequency standardization expendi- ture in suspense				
Total assets	144,832.68	47,942.85	99,950.08	30,434.09
LIABILITIES				
Debenture balance	2,858.23			
Accounts payable	3,005.07	24.12	2,372.47	268.06
Bank overdraft				
Other liabilities	172.21	293.43	160.00	
Total liabilities	6,035.51	317.55	2,532.47	268.06
RESERVES				
For equity in H-E.P.C. systems	37,374.20	12,425.62	42,228.34	6,155.54
For depreciation	7,758.67	1,586.21	11,910.93	5,842.96
Other reserves	84.95	310.82		
Total reserves	45,217.82	14,322.65	54,139.27	11,998.50
SURPLUS				
Debentures paid	34,541.77	2,750.00	9,206.06	11,763.30
Local sinking fund				
Operating surplus	59,037.58	30,552.65	34,072.28	6,404.23
Net frequency standardization ex- pense charged this year				
Total surplus	93,579.35	33,302.65	43,278.34	18,167.53
Total liabilities, reserves, and surplus ..	144,832.68	47,942.85	99,950.08	30,434.09
Percentage of net debt to total assets less equity in H-E.P.C. systems	5.6	0.9	4.4	1.1

Utilities as at December 31, 1951

Windsor	Wingham	Woodbridge	Woodstock	Woodville	Wyoming
123,849	2,611	1,673	15,466	382	710
\$	\$	\$	\$	\$	\$
624,122.81	24,093.07		69,781.15		
1,983,164.69	6,823.18		203,443.28		
1,689,374.24	63,419.34	29,410.63	236,502.06	4,278.06	15,296.59
671,106.40					
818,287.89	28,739.87	18,887.60	129,123.45	2,234.48	5,227.40
780,998.96	26,810.43	10,369.17	132,806.39	2,968.66	6,428.16
106,246.59	12,156.78	2,805.87	36,147.58	738.77	962.74
152,463.10	13,471.25	35.50	37,955.34		57.15
	14,711.99				
6,825,764.68	190,225.91	61,508.77	845,759.25	10,219.97	27,972.04
1,500.00	11,064.78	299.26	400.00	3,746.19	1,609.74
1,091,410.16		7,000.00	105,000.00	5,000.00	2,100.00
331,881.81	2,253.70	72.94	11,401.99	232.62	289.21
722,949.74	23,557.59		1,027.20		
117,026.44					
6,665,354.08	86,101.12	72,977.33	851,043.91	18,652.15	17,282.67
466.30	307.25		399.49	150.00	
		8,143.18	2,307.10		
15,756,353.21	313,510.35	150,001.48	1,817,338.94	38,000.93	49,253.66
190,000.00			146,043.12		
204,756.49	2,611.66	1,383.38	6,163.62	1,294.54	1,451.86
657,708.32			19,294.35		
135,237.85	1,878.15	1,230.14	10,744.31	10.00	58.89
1,187,702.66	4,489.81	2,613.52	182,245.40	1,304.54	1,510.75
6,665,354.08	86,101.12	72,977.33	851,043.91	18,652.15	17,282.67
2,386,164.81	49,054.60	18,818.71	243,110.97	3,092.17	7,385.69
266,660.35		150.00	1,086.01	544.81	7.69
9,318,179.24	135,155.72	91,946.04	1,095,240.89	22,289.13	24,676.05
2,393,832.05	81,155.39	8,499.97	141,342.51	5,248.09	9,700.00
117,026.44					
2,787,332.36	92,709.43	46,941.95	398,510.14	9,159.17	15,453.99
47,719.54					2,087.13
5,250,471.31	173,864.82	55,441.92	539,852.65	14,407.26	23,066.86
15,756,353.21	313,510.35	150,001.48	1,817,338.94	38,000.93	49,253.66
13.1	2.0	3.8	18.9	6.7	4.7

Balance Sheets of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Concluded

THUNDER

Municipality	York Twp. 96,770	Zurich 534	TOTAL SOUTHERN ONTARIO SYSTEM	Fort William 34,926
ASSETS	\$	\$	\$	\$
Lands and buildings	270,816.77		17,468,289.40	182,654.42
Substation equipment	540,635.55		40,004,595.95	436,680.56
Distribution system—overhead	1,167,534.85	9,872.07	41,031,338.62	651,275.66
Distribution system—underground			10,554,818.60	
Line transformers	723,961.57	6,836.79	24,693,650.55	206,331.71
Meters	487,224.41	4,795.27	17,408,637.56	172,404.71
Street light equipment, regular	144,812.97	876.15	5,458,000.98	101,750.59
Street light equipment, ornamental				
Miscellaneous construction expense	37,920.00	77.55	5,773,124.55	64,960.48
Steam or hydraulic plant			2,968,985.70	
Old plant			486,089.56	
Total plant	3,372,906.12	22,457.83	165,847,531.47	1,816,058.13
Bank and cash balance	10,957.06	2,546.71	3,035,099.83	155,188.53
Securities and investments	100,000.00	5,500.00	15,447,525.55	205,300.00
Accounts receivable	148,292.15	57.13	7,412,678.99	83,471.16
Inventories	76,989.18		7,227,762.01	76,424.05
Sinking fund on local debentures			406,102.70	191,586.66
Equity in H-E.P.C. systems	1,671,652.73	26,553.44	111,265,052.52	2,171,444.07
Other assets			775,304.43	3,381.10
Frequency standardization expenditure in suspense	100,806.14	4,265.26	848,580.09	
Total assets	5,481,603.38	61,380.37	312,265,637.59	4,702,853.70
LIABILITIES				
Debenture balance			17,750,100.06	674,000.00
Accounts payable	124,118.84	4,923.57	7,214,242.11	96,101.95
Bank overdraft			1,976,465.17	
Other liabilities	155,769.27	10.00	1,451,136.16	51,872.27
Total liabilities	279,888.11	4,933.57	28,391,943.50	821,974.22
RESERVES				
For equity in H-E.P.C. systems	1,671,652.73	26,553.44	111,265,052.52	2,171,444.07
For depreciation	1,024,164.36	5,857.57	45,923,572.61	362,177.47
Other reserves	124,031.87		5,377,567.86	8,678.97
Total reserves	2,819,848.96	32,411.01	162,566,192.99	2,542,300.51
SURPLUS				
Debentures paid	489,374.65	5,591.61	57,919,509.01	140,209.11
Local sinking fund			406,102.70	191,586.66
Operating surplus	1,892,491.66	18,444.18	63,715,692.59	1,006,783.20
Net frequency standardization expense charged this year			733,803.20	
Total surplus	2,381,866.31	24,035.79	121,307,501.10	1,338,578.97
Total liabilities, reserves, and surplus	5,481,603.38	61,380.37	312,265,637.59	4,702,853.70
Percentage of net debt to total assets, less equity in H-E.P.C. systems	7.5	14.17	13.9	18.2

Utilities as at December 31, 1951

BAY SYSTEM

Nipigon (V.A.)	Port Arthur 32,082	Red Rock Imp. Dist. 1,425	Schreiber Twp. (V.A.)	Terrace Bay Imp. Dist. 1,246	TOTAL THUNDER BAY SYSTEM
\$	\$	\$	\$	\$	\$
215.03	592,298.80	900.00	6,937.08		782,105.33
32,680.25	514,843.95	20,746.76	38,897.52	57,287.25	952,424.51
12,908.51	719,725.16				1,520,612.60
10,375.97	208,991.29	9,472.11	9,201.91	17,131.80	464,037.33
6,107.58	201,242.90	4,922.83	8,979.51	10,178.92	408,104.84
2,332.25	114,277.36	3,601.86	2,368.43	14,225.27	242,331.09
	34,272.95	2,489.10	2,186.60	2,601.79	108,843.17
	344,796.23		14,562.18		344,796.23
64,619.59					14,562.18
2,645.31	2,730,448.64	42,132.66	83,133.23	101,425.03	4,837,817.28
11,000.00	24,513.73	10,294.55	10,488.23	22,573.55	225,703.90
680.85	574,917.87	453.53	750.44	52.15	791,217.87
	77,106.72		160.54		162,514.85
	69,499.50		15,746.01		146,084.09
32,748.52	4,770,960.37	7,588.15	6,132.49	15,244.84	207,332.67
27.89	1,631.79				7,004,118.44
					5,040.78
111,722.16	8,249,078.62	60,468.89	116,410.94	139,295.57	13,379,829.88
146.49	165,192.41	26,520.00	38,000.00	74,100.00	812,620.00
623.23		2,814.82	41.03		264,296.70
769.72	165,192.41	29,334.82	38,041.03	74,100.00	52,495.50
32,748.52	4,770,960.37	7,588.15	6,132.49	15,244.84	1,129,412.20
6,237.78	1,073,858.45	3,130.44	2,850.90	6,638.00	7,004,118.44
	158,569.51				1,454,893.04
38,986.30	6,003,388.33	10,718.59	8,983.39	21,882.84	167,248.48
10,000.00	626,317.40	4,680.00	12,000.00	3,900.00	8,626,259.96
61,966.14	1,454,180.48	15,735.48	15,746.01	39,412.73	797,106.51
71,966.14	2,080,497.88	20,415.48	41,640.51	43,312.73	207,332.67
111,722.16	8,249,078.62	60,468.89	116,410.94	139,295.57	2,619,718.54
0.68	2.0	48.5	22.1	53.2	3,624,157.72
					13,379,829.88
					14.9

Balance Sheets of Municipal Electrical

NORTHERN ONTARIO PROPERTIES

Municipality.....	Cache Bay	Capreol	Larder Lake Twp. (V.A.)	Latchford	McGarry Imp. Dist.
Population.....	864	1,992	.....	504	2,128
ASSETS	\$	\$	\$	\$	\$
Lands and buildings.....		450.00	500.00		
Substation equipment.....		26,265.31			
Distribution system—overhead.....	525.10	18,699.48	20,215.44	12,656.72	21,470.58
Distribution system—underground.....					
Line transformers.....	397.08	11,332.67	12,265.89	3,497.89	10,716.10
Meters.....	1,309.70	10,829.24	9,819.86	3,036.61	7,476.76
Street light equipment, regular.....	129.01	5,400.70	2,478.52	1,361.74	2,526.43
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	1,217.24	1,075.75	2,780.53	1,127.05	582.63
Steam or hydraulic plant.....					
Old plant.....	*42,336.63				
Total plant.....	45,914.76	74,053.15	48,060.24	21,680.01	42,772.50
Bank and cash balance.....	2,379.05	2,485.25	5,545.09	1,140.14	
Securities and investments.....					
Accounts receivable.....	119.04	2,658.84	1,321.51	30.95	2,062.70
Inventories.....		67.00			
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....					
Other assets.....					
Frequency standardization expenditure in suspense.....					
Total assets.....	48,412.85	79,264.24	54,926.84	22,851.10	44,835.20
LIABILITIES					
Debenture balance.....	26,000.00		16,200.00	18,600.00	13,000.00
Accounts payable.....	18,901.00	24,603.56	2,497.34	854.62	3,041.97
Bank overdraft.....					451.75
Other liabilities.....	35.00	570.00	5,150.41	150.00	3,746.25
Total liabilities.....	44,936.00	25,173.56	23,847.75	19,604.62	20,239.97
RESERVES					
For equity in H E.P.C. systems.....					
For depreciation.....	854.00	5,799.79	12,841.00	720.00	7,300.00
Other reserves.....		77.39	58.97		
Total reserves.....	854.00	5,877.18	12,899.97	720.00	7,300.00
SURPLUS					
Debentures paid.....	2,000.00	19,000.00	1,800.00	1,400.00	1,000.00
Local sinking fund.....					
Operating surplus.....	622.85	29,213.50	16,379.12	1,126.48	16,295.23
Net frequency standardization expense charged this year.....					
Total surplus.....	2,622.85	48,213.50	18,179.12	2,526.48	17,295.23
Total liabilities, reserves, and surplus.....	48,412.85	79,264.24	54,926.84	22,851.10	44,835.20
Percentage of net debt to total assets less equity in H-E.P.C. systems.....	92.8	31.8	43.4	85.8	45.1

* Undistributed plant.

Utilities as at December 31, 1951

North Bay	Sioux Lookout	Sturgeon Falls	Sudbury	TOTAL NORTHERN ONTARIO PROPERTIES	TOTAL ALL SYSTEMS
18,740	2,381	4,953	50,222		
\$	\$	\$	\$	\$	\$
62,930.83	7,653.66		253,270.98	324,805.47	18,575,200.20
118,583.00		2,249.99	385,570.08	532,668.38	41,489,688.84
233,482.98	26,891.75	51,144.17	584,130.00	969,216.22	43,521,167.44
					10,554,818.60
96,244.60	15,341.15	25,303.09	263,651.04	438,749.51	25,596,437.39
124,999.11	14,211.26	24,233.89	226,706.88	422,623.31	18,239,365.71
42,135.52	8,582.28	4,543.67	160,170.86	227,328.73	5,927,660.80
14,093.45	1,070.00	4,464.57	52,968.69	79,379.91	5,961,347.63
					3,313,781.93
				42,336.63	542,988.37
692,469.49	73,750.10	111,939.38	1,926,468.53	3,037,108.16	173,722,456.91
	4,425.72			15,975.25	3,276,778.98
	2,849.27		50,000.00	52,849.27	16,291,592.69
20,574.06	1,426.97	18,628.04	105,016.74	151,838.85	7,727,032.69
38,258.82	6,086.26		96,111.13	140,523.21	7,514,369.31
					613,435.37
					118,269,170.96
7,311.57				7,311.57	787,656.78
					848,580.09
758,613.94	88,538.32	130,567.42	2,177,596.40	3,405,606.31	329,051,073.78
			253,000.00	326,800.00	18,889,520.06
27,741.85	730.77	19,111.04	77,296.96	174,779.11	7,653,317.92
46,933.12		3,497.58	57,810.85	108,693.30	2,085,158.47
50,605.23	2,913.75	4,176.44	41,935.32	109,282.40	1,612,914.06
125,280.20	3,644.52	26,785.06	430,043.13	719,554.81	30,240,910.51
					118,269,170.96
282,165.78	1,812.09	35,506.00	361,952.57	708,951.23	48,087,416.88
3,098.56		1,124.13	79,141.42	83,500.47	5,628,316.81
285,264.34	1,812.09	36,630.13	441,093.99	792,451.70	171,984,904.65
			464,338.53	717,696.21	59,434,311.73
228,157.68					613,435.37
119,911.72	83,081.71	67,152.23	842,120.75	1,175,903.59	67,511,314.72
					733,803.20
348,069.40	83,081.71	67,152.23	1,306,459.28	1,893,599.80	126,825,258.62
758,613.94	88,538.32	130,567.42	2,177,596.40	3,405,606.31	329,051,073.78
16.5	41.2	20.5	19.7	21.1	14.1

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM

Municipality	Acton	Agincourt	Ailsa Craig	Alexandria	Alliston
Population	3,037	1,000	497	2,209	2,038
EARNINGS	\$	\$	\$	\$	\$
Domestic service	33,317.47	14,521.89	5,657.57	17,690.49	24,924.72
Commercial light service	14,202.52	4,371.71	2,556.47	14,407.81	14,198.98
Commercial power service	61,741.88	8,186.36	2,669.96	6,165.59	11,165.24
Municipal power	963.93			1,710.12	988.75
Street lighting	3,318.14	1,652.00	706.00	2,343.67	2,215.20
Merchandise					8.86
Miscellaneous	397.80	222.79	160.05	1,552.19	676.70
Total earnings	113,941.74	28,954.75	11,750.05	43,869.87	54,178.45
EXPENSES					
Power purchased	92,771.84	21,070.06	8,334.39	21,380.44	29,786.38
Substation operation					
Substation maintenance					
Distribution system, operation and maintenance	4,739.07	206.84	288.91	3,016.64	2,959.61
Line transformer maintenance		395.23	13.34	175.75	118.48
Meter maintenance	195.94		10.57	279.43	681.58
Consumers' premises expenses	104.24	139.69			2,617.95
Street lighting, operation and maintenance	321.20	272.68	144.20	306.90	345.87
Promotion of business	53.34				
Billing and collecting	1,568.09	1,055.89	525.44	1,873.76	1,708.53
General office, salaries and expenses	1,759.81	369.53	111.30	1,310.49	1,714.86
Undistributed expenses	1,001.07		28.51	218.03	168.62
Truck operation and maintenance	431.42			824.51	646.81
Interest	5.25				
Sinking fund and principal payments on debentures					
Depreciation	2,752.00	1,315.00	675.00	2,500.00	2,260.00
Other reserves					
Total operating costs and fixed charges	105,703.27	24,824.92	10,131.66	31,885.95	43,008.69
Net surplus	8,238.47	4,129.83	1,618.39	11,983.92	11,169.76
Net loss					
NUMBER OF CUSTOMERS					
Domestic service	771	270	173	557	562
Commercial light service	118	40	42	144	145
Power service	25	8	4	16	27
Total	914	318	219	717	734

Statement B includes 324 municipalities in group 1, see page 36.

Utilities for Year Ended December 31, 1951

Almonte	Alvinston	Amherstburg	Ancaster Twp. (V.A.)	Apple Hill	Arkona	Arnprior
2,394	682	3,594	.....	464	338	4,495
\$	\$	\$	\$	\$	\$	\$
26,728.57	5,116.98	48,099.83	34,484.38	2,197.67	5,210.73	38,292.05
10,323.22	4,054.78	19,934.36	8,779.14	1,154.96	2,803.06	22,303.02
20,576.49	1,596.93	14,801.72	1,453.63	334.15	275.40	30,127.16
1,788.28	224.97	.....	616.68	.....	.....	2,462.86
3,352.00	1,670.00	3,743.76	1,633.50	478.50	1,369.92	4,349.24
1,128.38	.....	.....	.....	.....	.....	270.58
2,648.94	406.18	1,563.52	393.74	109.60	105.62	2,205.30
66,545.88	13,069.84	88,143.19	47,361.07	4,274.88	9,764.73	100,010.21
20,843.27	8,005.03	63,285.01	24,724.88	2,011.66	6,190.60	67,213.47
10,084.60	.....	.....	.....	.....	.....	.....
44.71	.....	.....	.....	.....	.....	.....
3,196.15	442.45	5,528.55	1,937.46	212.91	630.44	3,954.45
33.30	7.51	427.66	300.32	.....	249.59	355.57
448.75	20.83	946.90	507.16	62.20	.....	1,306.48
43.72	.....	1,383.06	4.50	.....	37.50	116.67
244.93	248.76	652.38	331.98	97.80	174.64	605.26
.....	.....	11.76	.....	.....	.....	.....
3,650.12	823.07	1,651.31	1,152.71	355.69	485.71	3,740.14
2,587.61	479.54	2,569.08	1,617.16	88.45	253.06	3,638.26
1,213.24	50.98	1,054.25	168.42	.....	8.62	613.20
682.20	.....	1,065.50	1,364.46	.....	.....	.....
661.85	.....	.....	1,188.55	.....	13.99	.....
2,395.50	.....	.....	1,554.75	.....	.....	.....
6,215.00	776.00	2,722.00	2,256.00	360.00	405.00	3,195.00
52,344.95	10,854.17	81,297.46	37,108.35	3,188.71	8,449.15	84,738.50
14,200.93	2,215.67	6,845.73	10,252.72	1,086.17	1,315.58	15,271.71
761	249	954	580	83	137	1,139
123	59	183	52	22	40	171
26	7	22	10	1	2	33
910	315	1,159	642	106	179	1,343

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Arthur	Athens	Aurora	Aylmer	Ayr
Population.....	1,060	841	3,363	3,557	872
EARNINGS	\$	\$	\$	\$	\$
Domestic service.....	11,645.05	9,441.50	48,782.74	31,645.00	11,057.94
Commercial light service.....	10,139.44	4,588.36	18,709.94	21,676.58	4,968.56
Commercial power service.....	2,905.91	734.28	30,512.19	26,387.47	3,847.22
Municipal power.....	508.32		2,115.81	2,491.26	
Street lighting.....	1,831.56	882.00	4,234.57	4,240.08	1,490.00
Merchandise.....	23.19				
Miscellaneous.....	130.25	273.13	205.33	1,034.25	350.59
Total earnings.....	27,183.72	15,919.27	104,560.58	87,474.64	21,714.31
EXPENSES					
Power purchased.....	13,880.69	6,209.26	65,612.11	61,134.83	12,870.62
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	2,384.79	199.28	6,213.65	5,168.61	1,363.17
Line transformer maintenance.....	48.25	6.66	495.40		18.00
Meter maintenance.....	290.76	38.69	943.70	470.98	135.68
Consumers' premises expenses.....			7,277.93	161.69	52.50
Street lighting, operation and maintenance.....	466.52	80.28	1,376.71	800.37	405.80
Promotion of business.....					
Billing and collecting.....	983.29	474.09	3,685.55	3,183.87	1,174.92
General office, salaries and expenses.....	396.00	217.67	3,088.63	2,284.86	104.67
Undistributed expenses.....	62.09		1,637.87	756.72	295.89
Truck operation and maintenance.....	200.00			821.02	225.00
Interest.....	75.29		156.61	3.39	
Sinking fund and principal payments on debentures.....	184.92				
Depreciation.....	950.00	775.00	4,013.00	4,270.00	981.00
Other reserves.....					
Total operating costs and fixed charges.....	19,922.60	8,000.93	94,501.16	79,056.34	17,627.25
Net surplus.....	7,261.12	7,918.34	10,059.42	8,418.30	4,087.06
Net loss.....					
NUMBER OF CUSTOMERS					
Domestic service.....	314	247	1,015	988	268
Commercial light service.....	92	55	156	218	51
Power service.....	11	2	29	30	8
Total.....	417	304	1,200	1,236	327

Utilities for Year Ended December 31, 1951

Baden 700	Bancroft 1,308	Barrie 13,318	Barry's Bay 1,294	Bath 429	Beachville 660	Beamsville 1,728
\$	\$	\$	\$	\$	\$	\$
8,932.75	14,457.39	158,818.90	9,041.50	5,760.10	8,040.59	20,381.73
3,429.31	13,570.57	88,874.62	5,693.98	1,711.22	1,040.84	7,559.95
13,047.61	2,031.09	66,459.76	417.28	700.30	27,847.91	3,293.06
928.32	1,598.40	4,924.89				
		8,636.00	766.50	462.70	728.00	2,218.85
		555.33				
224.63	85.18	4,987.50		14.30	799.44	689.65
26,562.62	31,742.63	333,257.00	15,919.26	8,648.62	38,456.78	34,143.24
20,599.98	3,546.53	193,416.06	5,059.03	3,043.31	33,352.80	25,399.50
	897.34	5,535.21				
		4,479.66				
294.31	1,189.95	19,921.76	297.72	265.67	791.04	1,494.07
	245.99	2,636.81	66.99	102.00	57.12	.75
19.22	404.86	2,935.80	70.62	65.86	103.12	.60
56.99		5,264.14			714.43	184.85
99.70	378.50	1,538.57	316.04	148.57	139.34	532.23
417.15	1,550.39	11,020.92	587.78	308.60	553.12	2,124.45
296.50	1,411.54	9,219.88	255.31	233.63	288.76	1,287.00
17.10	344.20	4,837.88	20.00		5.00	17.82
40.51		2,771.93				
	1,837.53	9.65	225.36	63.74	11.00	
	10,125.00		842.13	563.86		
723.00	3,616.00	18,671.00	544.00	304.00	700.00	1,687.00
		355.96				
22,564.46	25,547.83	282,615.23	8,284.98	5,099.24	36,715.73	32,728.27
3,998.16	6,194.80	50,641.77	7,634.28	3,549.38	1,741.05	1,414.97
193	333	3,450	248	119	213	524
34	101	567	57	15	28	90
3	6	84	3	1	3	11
230	440	4,101	308	135	244	625

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Beaverton	Beeton	Belle River	Belleville	Blenheim
Population	967	579	1,411	19,423	2,436
EARNINGS	\$	\$	\$	\$	\$
Domestic service	14,105.40	6,331.31	13,633.71	225,645.52	17,325.90
Commercial light service	6,478.96	4,614.77	7,786.59	126,237.91	19,356.80
Commercial power service	3,869.07	802.58	541.69	94,530.82	14,609.29
Municipal power	631.92		2,071.53	6,988.97	1,805.20
Street lighting	1,821.18	1,750.30	2,004.00	16,952.68	4,982.00
Merchandise		7.75		1,524.33	
Miscellaneous	221.78	162.75	162.20	2,637.70	1,080.99
Total earnings	27,128.31	13,669.46	26,199.72	474,517.93	59,160.18
EXPENSES					
Power purchased	15,871.89	7,775.77	15,193.52	324,092.65	32,852.99
Substation operation				5,710.77	
Substation maintenance					
Distribution system, operation and maintenance	1,822.11	1,760.95	1,773.93	3,418.88	2,160.93
Line transformer maintenance	167.00	20.00	317.13	529.78	233.34
Meter maintenance	546.55	114.21	583.58	1,525.54	343.04
Consumers' premises expenses	363.01		56.42	2,179.24	99.49
Street lighting, operation and maintenance	349.12	391.54	245.38	4,063.58	2,288.78
Promotion of business				497.65	
Billing and collecting	1,932.15	640.03	1,803.40	15,008.90	1,965.31
General office, salaries and expenses	1,224.63	377.83	842.38	10,677.86	3,197.03
Undistributed expenses	22.50	54.15	79.26	3,908.65	
Truck operation and maintenance				579.87	
Interest	7.17		31.46		229.20
Sinking fund and principal payments on debentures					
Depreciation	1,204.00	840.00	1,604.00	18,244.00	3,905.00
Other reserves					
Total operating costs and fixed charges	23,510.13	11,974.48	22,530.46	390,437.37	47,275.11
Net surplus	3,618.18	1,694.98	3,669.26	84,080.56	11,885.07
Net loss					
NUMBER OF CUSTOMERS					
Domestic service	440	180	480	5,294	726
Commercial light service	87	42	75	804	165
Power service	12	6	6	145	20
Total	539	228	561	6,243	911

Utilities for Year Ended December 31, 1951

Bloomfield 653	Blyth 660	Bobcaygeon 1,139	Bolton 852	Bothwell 701	Bowmanville 5,318	Bradford 1,576
\$	\$	\$	\$	\$	\$	\$
5,833.47	7,489.98	17,305.49	10,365.42	4,826.40	70,605.47	17,270.89
4,586.68	4,052.12	10,323.50	4,992.14	3,981.97	24,586.52	15,426.91
2,150.50	6,243.11	813.17	3,333.55	1,955.91	82,970.06	14,482.43
			642.46	152.81	1,080.86	820.99
858.00	1,382.64	2,906.43	1,238.02	1,971.64	5,491.00	1,696.50
					3,001.65	232.06
530.56	254.25	162.42	285.23	442.14	2,493.49	372.13
13,959.21	19,422.10	31,511.01	20,856.82	13,330.87	190,229.05	50,301.91
8,801.31	13,398.90	14,474.21	11,805.92	9,049.67	133,212.41	25,811.77
		355.29			306.95	
940.74	946.44	1,776.45	1,175.26	270.95	7,318.67	3,640.14
	60.02	165.99	44.86	40.20	82.96	566.49
109.64	21.25	174.96		302.69	931.66	651.42
	12.20		79.83		1,957.70	
322.92	276.66	496.72	233.89	277.38	470.66	389.29
					36.73	
1,008.26	731.21	1,362.86	912.14	575.78	5,030.68	1,353.50
260.41	276.40	755.63	723.49	357.18	5,515.28	1,228.41
	42.73	141.70			3,365.31	319.46
		641.55			1,779.91	663.42
		1,300.56				
		3,494.75				
543.00	940.00	3,375.00	1,244.00	581.00	7,760.00	2,334.00
			30.00			
11,986.28	16,705.81	28,515.67	16,249.39	11,454.85	167,768.92	36,957.90
1,972.93	2,716.29	2,995.34	4,607.43	1,876.02	22,460.13	13,344.01
209	233	448	244	215	1,659	410
44	59	99	58	65	214	103
7	6	3	15	8	32	23
260	298	550	317	288	1,905	536

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Braeside	Brampton	Brantford	Brantford Twp. (V.A.)	Brechin
Population	451	8,301	36,602	16,318	270
EARNINGS	\$	\$	\$	\$	\$
Domestic service	3,047.87	105,615.07	343,712.94	176,754.46	2,369.69
Commercial light service	670.02	41,921.80	167,141.72	26,667.61	1,990.67
Commercial power service	6,909.75	39,721.11	537,001.45	21,211.29	882.37
Municipal power		5,626.47	11,286.00		
Street lighting	441.58	8,269.64	43,278.24	13,369.19	378.00
Merchandise					
Miscellaneous	6.83	3,041.74	7,313.66	391.40	205.25
Total earnings	11,076.05	204,195.83	1,109,734.01	238,393.95	5,825.98
EXPENSES					
Power purchased	7,421.16	143,162.65	786,860.19	118,670.54	2,894.85
Substation operation			17,075.48	1,261.89	
Substation maintenance		230.97	5,901.63		
Distribution system, operation and maintenance	682.45	5,198.44	8,761.37	8,884.98	154.47
Line transformer maintenance	58.25	185.02	3,743.29	1,227.80	
Meter maintenance	14.91	549.72	9,196.83	2,803.74	19.07
Consumers' premises expenses	2.03	306.59	28,394.92	245.02	60.35
Street lighting, operation and main- tenance	86.91	2,113.14	7,537.76	2,261.89	37.50
Promotion of business			31.34		
Billing and collecting	350.58	4,619.90	20,977.68	6,736.53	325.64
General office, salaries and expenses	239.35	2,687.08	15,874.32	6,023.09	62.81
Undistributed expenses			726.00	1,651.45	
Truck operation and maintenance				3,851.48	
Interest	189.66			5,615.25	
Sinking fund and principal payments on debentures	254.94			7,547.66	
Depreciation	212.00	10,080.00	30,542.00	11,963.00	154.00
Other reserves		899.28			
Total operating costs and fixed charges	9,512.24	170,032.79	935,622.81	178,744.32	3,708.69
Net surplus	1,563.81	34,163.04	174,111.20	59,649.63	2,117.29
Net loss					
NUMBER OF CUSTOMERS					
Domestic service	131	2,266	9,760	3,138	60
Commercial light service	10	329	1,549	129	23
Power service	3	73	268	18	1
Total	144	2,668	11,577	3,285	84

Utilities for Year Ended December 31, 1951

Bridgeport	Brigden	Brighton	Brockville	Brussels	Burford	Burgessville
1,138	450	2,027	12,030	817	884	194
\$	\$	\$	\$	\$	\$	\$
11,834.68	3,292.63	23,346.41	121,277.01	9,380.86	12,567.28	2,909.29
3,701.29	2,868.86	11,086.73	51,919.20	5,152.51	4,550.31	1,238.38
2,196.19	4,212.43	6,027.96	152,443.46	4,184.85	3,621.92	1,453.57
.....	210.95	.....	8,752.62	446.62	.....	.....
1,018.50	837.89	2,160.00	9,381.50	1,296.00	1,026.32	384.00
.....	.....	.....	.....	.....	49.91	.....
41.71	227.67	318.92	1,775.54	204.44	128.76	87.56
18,792.37	11,650.43	42,940.02	345,549.33	20,665.28	21,944.50	6,072.80
.....
11,479.89	5,996.32	25,125.43	277,834.97	13,436.43	14,703.36	3,730.40
.....	.....	.....	13,362.39	.....	.....	.....
.....	.....	.....	61.24	.....	.....	.....
180.82	808.25	3,009.24	7,469.69	684.62	1,241.89	419.82
9.58	67.78	547.26	222.86	64.66	81.54	21.41
134.19	69.84	1,089.39	2,997.88	11.25	42.72	189.86
3.37	.....	92.70	.....	.....	.....	.....
183.26	212.32	369.47	2,121.70	145.43	270.30	23.21
.....
1,071.33	595.75	2,816.67	6,147.78	233.87	813.72	188.37
346.47	307.65	2,719.48	8,619.70	687.09	403.08	50.28
11.70	8.97	1,281.60	1,766.25	37.61	32.85	5.00
.....	.....	1,191.20	1,777.49	.....	.....	.....
.....	.....	6.05	.....	.....	2.85	.....
.....
1,229.00	745.00	1,500.00	17,054.00	1,104.00	940.00	258.00
.....
14,649.61	8,811.88	39,748.49	339,435.95	16,404.96	18,532.31	4,886.35
4,142.76	2,838.55	3,191.53	6,113.38	4,260.32	3,412.19	1,186.45
.....
.....
299	141	618	3,485	286	283	68
30	45	145	456	70	53	22
5	6	10	89	9	7	3
334	192	773	4,030	365	343	93

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Burks Falls 852	Burlington	Caledonia	Campbell- ville 260	Canning- ton 874
Population.....		6,314	1,685		
EARNINGS	\$	\$	\$	\$	\$
Domestic service.....	8,170.12	91,212.61	13,943.96	3,218.68	10,487.01
Commercial light service.....	8,705.31	37,878.91	10,603.06	732.05	4,948.35
Commercial power service.....	163.25	28,247.02	3,363.79	438.21	4,139.07
Municipal power.....	584.36	1,165.76	408.80		
Street lighting.....	1,913.93	5,326.99	2,850.00	372.00	1,568.45
Merchandise.....			112.53		16.59
Miscellaneous.....	20.30	1,293.67	149.36	111.95	408.07
Total earnings.....	19,557.27	165,124.96	31,431.50	4,872.89	21,567.54
EXPENSES					
Power purchased.....	5,274.57	86,714.27	17,770.08	2,934.21	12,911.05
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	901.93	7,239.36	1,566.86	291.69	1,195.57
Line transformer maintenance.....		330.39	254.93	35.00	62.80
Meter maintenance.....	134.25	3,331.29	389.96	55.10	356.20
Consumers' premises expenses.....		300.68	61.95		216.87
Street lighting, operation and main- tenance.....	204.62	663.83	541.09	81.99	267.51
Promotion of business.....			13.49		
Billing and collecting.....	779.67	7,517.99	1,380.15	120.00	1,065.78
General office, salaries and expenses	528.53	5,156.74	1,729.26	102.06	763.27
Undistributed expenses.....		1,065.74	123.44		
Truck operation and maintenance....		1,411.43	649.74		
Interest.....	1,161.52	5,175.29	122.00		
Sinking fund and principal payments on debentures.....	1,877.36	6,832.49	500.00		
Depreciation.....	945.00	7,159.00	1,668.00	152.00	794.00
Other reserves.....					
Total operating costs and fixed charges.....	11,807.45	132,898.50	26,770.95	3,772.05	17,633.05
Net surplus.....	7,749.82	32,226.46	4,660.55	1,100.84	3,934.49
Net loss.....					
NUMBER OF CUSTOMERS					
Domestic service.....	232	1,903	524	67	311
Commercial light service.....	67	221	117	12	71
Power service.....	2	33	11	1	12
Total.....	301	2,157	652	80	394

Utilities for Year Ended December 31, 1951

Cardinal 1,811	Carleton Place 4,685	Cayuga 716	Chatham 21,473	Chatsworth 408	Chesley 1,715	Chesterville 1,178
\$	\$	\$	\$	\$	\$	\$
18,136.38	41,897.80	6,523.03	200,246.03	4,337.13	20,442.73	9,253.01
5,536.82	18,750.53	6,865.83	208,710.17	3,965.06	8,875.08	6,337.57
934.48	35,691.93	4,228.66	241,711.99	1,054.18	13,122.83	12,505.34
.....	1,774.69	33.10	11,648.05	.....	773.86	.....
1,328.00	5,277.19	1,786.62	36,256.93	850.00	2,595.11	1,482.00
.....	.....	17.82	2,659.13	.....	.....	.....
261.89	1,798.34	554.01	5,179.61	56.34	263.51	552.50
26,197.57	105,190.48	20,009.07	706,411.91	10,262.71	46,073.12	30,130.42
18,202.23	79,530.42	8,449.66	369,077.47	6,423.77	29,246.25	21,122.16
.....	354.00	.....	14,772.30	.....	.....	.....
.....	.....	.....	20,929.17	.....	.....	.....
828.50	4,549.32	782.34	41,063.65	485.27	1,869.75	1,767.91
77.60	99.99	120.75	7,774.66	.....	51.15	80.67
97.35	1,405.82	219.85	9,950.83	21.42	640.82	197.70
.....	393.28	.....	18,151.79	.....	193.02	82.17
135.43	2,114.35	409.02	7,092.76	131.45	470.30	266.78
.....	2.35	.....	21,595.67	.....	.....	.....
899.82	3,913.43	1,408.55	24,972.43	357.55	1,439.55	968.83
434.21	6,621.62	982.85	39,117.52	147.80	1,039.08	511.09
24.56	673.04	277.77	18,773.11	5.00	112.34	79.37
.....	494.14	574.51	12,966.91	.....	136.00	533.00
.....	.....	3.25	7,483.42	.....	.....	.....
.....	.....	.....	18,508.57	.....	.....	.....
870.00	4,028.00	1,376.00	34,675.00	512.00	2,448.00	1,133.00
.....	.....	.....	1,300.00	.....	.....	.....
21,569.70	104,179.76	14,604.55	668,205.26	8,084.26	37,646.26	26,742.68
4,627.87	1,010.72	5,404.52	38,206.65	2,178.45	8,426.86	3,387.74
.....
473	1,302	220	5,672	129	545	308
64	219	71	1,010	44	98	74
3	22	11	172	1	27	6
540	1,543	302	6,854	174	670	388

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Chippawa	Clifford	Clinton	Cobden	Cobourg
Population	1,676	485	2,495	796	7,818
EARNINGS	\$	\$	\$	\$	\$
Domestic service	15,659.29	5,982.52	31,919.23	6,842.85	91,100.26
Commercial light service	3,818.71	4,495.48	14,486.76	4,830.50	41,923.08
Commercial power service	308.39	1,186.70	9,272.10	5,316.11	60,164.33
Municipal power	732.76		4,150.00		1,719.41
Street lighting	3,485.53	992.00	3,259.41	1,148.96	8,067.70
Merchandise					
Miscellaneous	163.41	38.05	681.21	174.82	2,022.72
Total earnings	24,168.09	12,694.75	63,768.71	18,313.24	204,997.50
EXPENSES					
Power purchased	13,252.14	7,855.69	43,373.53	9,976.27	135,364.57
Substation operation			145.05		
Substation maintenance					
Distribution system, operation and maintenance	1,253.45	435.03	2,595.01	631.81	7,925.56
Line transformer maintenance	245.40	38.00	231.11		736.73
Meter maintenance	702.83	171.70	104.54	26.70	3,133.35
Consumers' premises expenses	105.62	265.86	453.59		235.79
Street lighting, operation and maintenance	1,097.15	174.94	835.60	47.19	1,440.37
Promotion of business			179.24		
Billing and collecting	1,134.64	416.39	2,002.25	793.28	9,185.02
General office, salaries and expenses	1,084.35	155.12	3,520.47	20.00	6,241.59
Undistributed expenses	101.48	17.28	528.66		2,779.76
Truck operation and maintenance	774.39		588.12		1,630.86
Interest		106.12	8.47		318.56
Sinking fund and principal payments on debentures		444.33			6,940.29
Depreciation	1,644.00	709.00	3,558.00	447.00	9,309.00
Other reserves					
Total operating costs and fixed charges	21,395.45	10,789.46	58,123.64	11,942.25	185,241.45
Net surplus	2,772.64	1,905.29	5,645.07	6,370.99	19,756.05
Net loss					
NUMBER OF CUSTOMERS					
Domestic service	479	156	761	249	2,061
Commercial light service	60	43	161	65	281
Power service	3	3	25	6	59
Total	542	202	947	320	2,401

Utilities for Year Ended December 31, 1951

Colborne 1,127	Coldwater 620	Collingwood 7,367	Comber 545	Cookstown 421	Cottam 520	Courtright 545
\$	\$	\$	\$	\$	\$	\$
14,864.55	6,335.81	67,647.51	3,926.15	5,110.52	5,006.08	3,289.73
7,801.80	3,607.51	32,360.40	3,691.35	2,539.11	2,607.88	2,056.71
1,836.05	2,774.60	55,837.90	5,131.60	1,515.95	1,133.49	
248.06		2,746.25				641.34
1,688.76	1,161.00	6,549.92	1,333.44	930.00	597.25	600.00
380.24		108.58				
153.17	252.22	679.12	18.30	2.03	183.67	63.31
26,972.63	14,131.14	165,929.68	14,100.84	10,097.61	9,528.37	6,651.09
15,064.57	8,319.06	120,456.03	8,164.85	5,903.58	5,263.77	3,586.53
		508.97				
1,592.10	1,173.68	6,309.42	422.99	487.52	297.61	270.59
17.30	70.00	338.87	70.39		47.00	
217.03	86.35	1,261.11	172.93	63.83	171.89	6.25
453.12	14.71	49.28				
292.68	239.99	1,084.52	215.95	156.24	109.03	79.43
1,737.21	764.84	4,210.41	673.40	309.93	652.66	265.67
1,261.02	462.20	2,340.80	660.34	91.01	246.95	175.55
318.51	61.80	2,115.59	37.39	7.61	7.82	5.00
858.42		2,271.42				
65.88			1.30			2.00
1,098.03						
789.00	1,083.00	7,358.00	847.00	693.00	523.00	441.00
23,764.87	12,275.63	148,304.42	11,266.54	7,712.72	7,319.73	4,832.02
3,207.76	1,855.51	17,625.26	2,834.30	2,384.89	2,208.64	1,819.07
357	180	2,085	156	149	175	142
78	51	283	59	39	32	27
7	3	64	7	3	6	1
442	234	2,432	222	191	213	170

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Creemore	Dashwood	Delaware	Delhi	Deseronto
Population	738	399	347	2,557	1,517
EARNINGS	\$	\$	\$	\$	\$
Domestic service	7,168.10	5,914.59	4,503.23	27,584.86	17,801.59
Commercial light service	3,751.09	2,284.92	2,039.76	25,157.88	5,922.75
Commercial power service	1,316.74	1,605.59		9,627.95	8,308.53
Municipal power				1,760.03	1,351.70
Street lighting	768.00	720.00	326.47	4,251.51	2,319.48
Merchandise				871.96	943.46
Miscellaneous	104.35	99.94	59.06	1,075.58	197.18
Total earnings	13,108.28	10,625.04	6,928.52	70,329.77	36,844.69
EXPENSES					
Power purchased	7,007.62	7,980.51	5,368.50	33,660.76	17,568.14
Substation operation					
Substation maintenance					
Distribution system, operation and maintenance	506.30	145.65	143.35	4,302.92	2,944.46
Line transformer maintenance	14.99			279.98	26.84
Meter maintenance	172.04	25.26		1,274.26	184.58
Consumers' premises expenses	12.85		30.65	904.90	32.67
Street lighting, operation and maintenance	147.73	97.06	5.05	765.52	481.27
Promotion of business				108.53	
Billing and collecting	579.90	429.98	451.71	2,413.36	1,327.61
General office, salaries and expenses	109.83	331.02	123.00	2,707.33	1,521.71
Undistributed expenses	8.04			940.76	253.13
Truck operation and maintenance					806.45
Interest			1.50	1,704.33	
Sinking fund and principal payments on debentures				4,453.52	
Depreciation	672.00	400.00	288.00	3,076.00	1,108.00
Other reserves					
Total operating costs and fixed charges	9,231.30	9,409.48	6,411.76	56,592.17	26,254.86
Net surplus	3,876.98	1,215.56	516.76	13,737.60	10,589.83
Net loss					
NUMBER OF CUSTOMERS					
Domestic service	222	127	96	822	494
Commercial light service	58	27	19	222	60
Power service	4	4		29	15
Total	284	158	115	1,073	569

Utilities for Year Ended December 31, 1951

Dorchester	Drayton	Dresden	Drumbo	Dublin	Dundalk	Dundas
557	518	2,070	334	203	811	6,787
\$	\$	\$	\$	\$	\$	\$
6,016.74	7,474.45	15,504.38	4,775.27	3,039.30	7,118.57	64,562.99
1,869.16	4,294.42	15,486.59	2,459.36	2,113.85	5,652.34	32,657.03
2,219.23	2,128.37	16,296.50	1,410.15	1,964.43	4,621.96	65,823.76
		1,339.87				964.09
1,172.50	960.00	3,179.92	650.00	627.00	1,235.00	7,708.50
			8.51			
177.21	149.37	2,973.18	277.00	44.68	460.06	564.25
11,454.84	15,006.61	54,780.44	9,580.29	7,789.26	19,087.93	172,280.62
6,855.39	7,862.32	30,512.77	5,520.60	4,843.47	12,795.27	113,091.48
		176.90				2,311.94
67.39	570.54	1,454.65	167.36	268.80	1,521.11	11,916.39
81.44	37.75	508.61	11.90	3.24		1,052.24
14.20	99.26	349.18	5.89	27.40	364.41	2,220.14
221.92	18.88	39.77				214.06
321.12	179.96	644.69	88.28	227.31	248.54	2,013.03
		10.00				
457.95	809.36	1,811.83	542.08	375.22	1,017.23	3,190.56
57.00	192.27	3,631.44	89.10	233.00	256.50	3,555.06
12.00	39.12	441.38		5.00	49.03	1,103.10
		1,042.10				1,838.28
		605.00	3.00			
		744.31				
805.00	878.00	2,147.00	394.00	340.00	848.00	5,003.00
8,893.41	10,687.46	44,119.63	6,822.21	6,323.44	17,100.09	147,509.28
2,561.43	4,319.15	10,660.81	2,758.08	1,465.82	1,987.84	24,771.34
198	196	602	120	64	249	2,232
35	56	156	34	34	81	244
3	5	21	2	2	8	50
236	257	779	156	100	338	2,526

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Dunnville	Durham	Dutton	East York Twp.
Population	4,384	2,293	863	62,301
EARNINGS	\$	\$	\$	\$
Domestic service	26,219.07	17,967.06	5,427.02	723,116.55
Commercial light service	27,061.47	13,900.90	3,911.86	88,557.81
Commercial power service	31,610.83	6,995.31	4,291.92	129,285.60
Municipal power	3,165.00	967.55		6,953.19
Street lighting	5,266.74	1,978.20	1,201.62	42,330.01
Merchandise				
Miscellaneous	912.28	186.56	248.73	950.69
Total earnings	94,235.39	41,995.58	15,081.15	991,193.85
EXPENSES				
Power purchased	63,015.41	22,462.69	9,933.43	624,115.87
Substation operation	1,942.78			
Substation maintenance				9,510.90
Distribution system, operation and maintenance	5,337.03	5,305.87	535.08	19,358.90
Line transformer maintenance	260.34	364.94	20.98	9,978.88
Meter maintenance	1,574.46	457.51	87.60	7,679.86
Consumers' premises expenses	254.70	1,295.23	6.12	22,320.16
Street lighting, operation and main- tenance	2,530.15	296.03	234.36	10,580.97
Promotion of business	105.38			
Billing and collecting	2,887.85	1,422.50	952.65	37,605.26
General office, salaries and expenses ..	2,669.27	1,592.73	205.75	34,969.80
Undistributed expenses	1,167.31	161.08	35.22	
Truck operation and maintenance	1,599.73	708.28		
Interest			1.70	23,675.06
Sinking fund and principal payments on debentures				29,000.00
Depreciation	5,827.00	1,937.00	584.00	47,325.00
Other reserves				2,352.50
Total operating costs and fixed charges	89,171.41	36,003.86	12,596.89	878,473.16
Net surplus	5,063.98	5,991.72	2,484.26	112,720.69
Net loss				
NUMBER OF CUSTOMERS				
Domestic service	1,282	562	254	16,736
Commercial light service	273	126	54	754
Power service	33	18	10	108
Total	1,588	706	328	17,598

Utilities for Year Ended December 31, 1951

Elmira	Elmvale	Elmwood	Elora	Embro	Erieau	Erie Beach
2,547	821	.....	1,365	448	404	59
\$	\$	\$	\$	\$	\$	\$
32,059.64	8,124.69	2,606.21	16,296.80	7,561.40	8,738.45	2,858.87
21,916.91	5,052.91	1,669.77	7,222.21	2,004.68	3,427.37	304.06
41,015.72	4,384.65	3,758.93	10,792.52	3,067.38	4,909.95	.....
4,307.61	320.98	.....	315.45	.....	.....	.....
2,603.13	1,203.97	593.00	1,953.00	652.00	846.00	252.00
.....	.....	.....	148.31	.....	.....	.....
2,795.42	50.35	162.57	282.37	106.90	64.68	11.82
104,698.43	19,137.55	8,790.48	37,010.66	13,392.36	17,986.45	3,426.75
66,348.84	12,256.00	5,064.58	24,596.14	8,651.76	10,718.84	1,252.25
564.09	.....	.....	.....	.....	.....	.....
4,112.56	882.77	249.48	3,466.95	458.40	730.50	160.10
449.37	101.29	.....	28.74	25.98	87.16	23.61
397.78	249.50	.....	208.02	207.01	82.82	79.09
9.73	50.47	.....	6.43	412.35	68.71	3.00
348.82	247.42	69.71	622.78	132.64	222.91	39.59
4.00	.....	.....	.....	.....	.....	.....
1,802.45	631.27	279.57	1,331.52	669.88	852.56	327.49
2,548.74	248.15	141.00	578.45	233.66	730.22	247.22
854.11	.....	.....	506.87	.....	.....	.....
399.78	.....	.....	941.23	.....	.....	.....
.....	.....	.....	8.87	1.71	.....	50.66
5,608.00	1,108.00	532.00	1,183.00	505.00	1,069.00	185.00
83,448.27	15,774.87	6,336.34	33,479.00	11,298.39	14,562.72	2,368.01
21,250.16	3,362.68	2,454.14	3,531.66	2,093.97	3,423.73	1,058.74
710	241	100	418	154	268	119
145	63	21	72	42	20	5
27	10	3	8	4	4	.....
882	320	124	498	200	292	124

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Erin	Essex	Etobicoke Twp.	Exeter
Population	638	2,782	52,635	2,559
EARNINGS	\$	\$	\$	\$
Domestic service	9,290.52	23,343.29	748,543.39	37,413.42
Commercial light service	5,297.01	20,060.64	138,447.86	17,712.90
Commercial power service	666.21	12,294.05	188,280.65	10,296.87
Municipal power		2,328.81	20,353.79	869.16
Street lighting	859.97	3,403.82	41,316.60	4,002.14
Merchandise				24.46
Miscellaneous		1,191.75	8,153.50	631.16
Total earnings	16,113.71	62,622.36	1,145,095.79	70,950.11
EXPENSES				
Power purchased	8,826.95	34,715.19	784,812.63	47,939.13
Substation operation			1,482.76	
Substation maintenance				
Distribution system, operation and maintenance	489.66	3,302.48	46,645.94	2,347.87
Line transformer maintenance		640.40	17,548.25	555.71
Meter maintenance	121.30	467.45	6,991.61	101.43
Consumers' premises expenses		497.25	36,218.64	1,410.29
Street lighting, operation and main- tenance	228.93	683.76	7,328.86	783.77
Promotion of business		73.80		
Billing and collecting	787.54	2,166.33	56,333.12	3,153.47
General office, salaries and expenses ..	286.27	3,870.05	29,247.77	3,065.98
Undistributed expenses	5.20	981.53		100.46
Truck operation and maintenance		1,036.15		1,012.18
Interest	471.20	300.75	25,817.24	
Sinking fund and principal payments on debentures	725.00	1,249.67	21,100.00	
Depreciation	474.00	3,899.00	49,392.00	3,532.00
Other reserves			500.00	
Total operating costs and fixed charges	12,416.05	53,883.81	1,083,418.82	64,002.29
Net surplus	3,697.66	8,738.55	61,676.97	6,947.82
Net loss				
NUMBER OF CUSTOMERS				
Domestic service	242	784	16,548	807
Commercial light service	61	162	974	160
Power service	2	27	177	25
Total	305	973	17,699	992

Utilities for Year Ended December 31, 1951

Fergus	Finch	Flesherton	Fonthill	Forest	Forest Hill	Frankford
3,411	371	484	1,467	1,793	16,374	1,398
\$	\$	\$	\$	\$	\$	\$
42,838.86	4,334.29	4,474.65	18,258.67	26,400.80	286,038.43	15,258.04
17,468.91	2,724.89	3,411.31	4,331.13	15,247.44	65,978.23	6,656.48
31,876.54	2,660.74	989.74	1,418.55	7,040.90	6,603.78	1,317.86
1,152.51			417.32	1,445.65	426.73	
4,882.93	507.00	822.00	2,015.10	3,160.00	13,280.52	1,308.63
687.56	236.17	279.14		1,112.89	5,761.69	57.72
98,907.31	10,463.09	9,976.84	26,440.77	54,407.68	378,089.38	24,598.73
68,771.41	5,644.18	5,214.11	15,489.65	30,835.02	230,759.65	10,923.29
57.09					2,067.30	
4,737.02	440.54	637.62	1,758.50	3,863.75	13,417.99	963.02
397.85	42.78		8.00	31.98	683.39	3.50
1,065.27	104.90	160.38	93.65	100.16	5,304.35	833.89
30.95			706.85	1,141.73	20,096.39	
727.49	92.21	111.37	476.56	587.24	1,898.23	146.09
4.43						
2,173.84	522.57	321.45	1,120.75	1,581.11	10,725.99	1,481.50
1,988.15	170.53	256.10	841.43	2,323.00	16,435.16	962.51
232.54		16.04	15.97	306.20		
1,082.73				349.82		
			122.60		4,552.66	543.85
			400.00		15,947.80	2,000.00
4,064.00	534.00	620.00	1,268.00	1,653.00	23,786.00	818.00
					270.00	
85,332.77	7,551.71	7,337.07	22,301.96	42,773.01	345,944.91	18,675.65
13,574.54	2,911.38	2,639.77	4,138.81	11,634.67	32,144.47	5,923.08
974	126	152	417	595	4,559	360
133	34	53	55	146	397	74
18	6	2	7	22	44	6
1,125	166	207	479	763	5,000	440

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Galt	Georgetown	Glencoe	Goderich
Population	19,362	3,503	976	4,963
EARNINGS	\$	\$	\$	\$
Domestic service	210,847.11	51,270.79	7,191.85	71,101.36
Commercial light service	101,984.71	17,994.46	10,071.11	34,840.12
Commercial power service	247,716.68	50,760.95	2,650.76	31,680.62
Municipal power	8,304.13	3,433.21	1,122.16	3,781.37
Street lighting	31,759.00	3,732.10	2,517.41	7,039.50
Merchandise	8,989.73			1,589.95
Miscellaneous	3,046.73	583.35	1,103.29	1,944.74
Total earnings	612,648.09	127,774.86	24,656.58	151,977.66
EXPENSES				
Power purchased	436,880.56	89,651.96	13,510.95	92,036.53
Substation operation	12,385.99			2,303.49
Substation maintenance	2,215.56	289.11		
Distribution system, operation and maintenance	19,009.20	6,282.64	1,078.66	12,360.49
Line transformer maintenance	537.37	1,133.82	148.32	414.23
Meter maintenance	4,667.30	1,741.73	109.96	677.83
Consumers' premises expenses	1,537.56	2,121.77	54.89	925.30
Street lighting, operation and maintenance	5,838.66	947.04	285.36	1,619.64
Promotion of business				
Billing and collecting	8,929.40	4,253.57	992.23	4,728.90
General office, salaries and expenses	19,474.81	4,198.27	1,450.17	4,187.60
Undistributed expenses	9,215.37		114.65	1,977.37
Truck operation and maintenance	4,618.04		478.34	844.92
Interest	2,114.03			266.28
Sinking fund and principal payments on debentures	1,250.00			1,110.82
Depreciation	28,363.00	5,136.00	1,179.00	6,398.00
Other reserves	780.04	250.00		
Total operating costs and fixed charges	557,816.89	116,005.91	19,402.53	129,851.40
Net surplus	54,831.20	11,768.95	5,245.05	22,126.26
Net loss				
NUMBER OF CUSTOMERS				
Domestic service	5,496	1,184	315	1,624
Commercial light service	653	171	94	301
Power service	175	32	11	48
Total	6,324	1,387	420	1,973

Utilities for Year Ended December 31, 1951

Grand Valley 638	Granton 263	Gravenhurst 2,901	Grimsby 2,685	Guelph 27,140	Hagersville 1,718	Hamilton 201,296
\$	\$	\$	\$	\$	\$	\$
6,652.79	3,918.14	30,212.30	24,937.84	289,432.51	13,211.46	1,830,720.74
3,872.74	1,278.28	17,894.49	17,371.28	115,496.09	11,865.26	956,140.96
4,387.52	194.57	19,472.90	10,867.54	248,336.39	27,992.41	4,048,248.49
		1,161.16	2,681.40	20,745.18	1,015.55	106,848.05
1,157.00	450.94	3,153.96	3,014.95	29,506.28	2,926.44	182,323.79
3.44		122.08				406.85
334.31		1,193.73	1,101.32	475.23	1,248.06	169,025.66
16,407.80	5,841.93	73,210.62	59,974.33	703,991.68	58,259.18	7,293,714.54
10,931.13	3,514.52	53,552.16	43,681.00	469,340.86	40,991.65	*5,472,758.05
				7,145.64		163,000.69
		66.92			42.05	22,791.64
933.37	165.93	4,712.12	4,630.90	23,928.04	5,263.41	152,903.02
	237.89	502.80		1,878.31	239.93	23,353.07
178.63		640.27	240.96	7,851.86	554.90	75,346.07
	3.85	5.21		2,355.88	26.80	58,089.86
283.08	1.55	553.77	687.18	5,873.50	169.55	38,138.80
						20,454.45
835.71	452.29	2,732.95	3,118.88	10,311.98	1,908.84	201,140.23
261.30	165.65	2,078.01	1,898.76	9,676.56	1,325.59	154,887.07
11.23		795.81	25.00	8,809.04	884.32	29,797.93
		413.78			684.23	
				2,850.00	1.43	
				5,000.00		33,333.34
717.00	322.00	3,926.00	2,968.00	36,526.00	1,410.00	271,118.14
14,151.45	4,863.68	69,979.80	57,250.68	591,547.67	53,502.70	6,717,112.36
2,256.35	978.25	3,230.82	2,723.65	112,444.01	4,756.48	576,602.18
230	90	971	870	7,034	492	53,355
63	26	173	161	840	142	6,720
11	1	22	20	182	23	1,308
304	117	1,166	1,051	8,056	657	61,383

* Includes 1951 Cost Adjustment.

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Hanover	Harriston	Harrow	Hastings	Havelock
Population	3,843	1,555	1,532	825	1,254
EARNINGS	\$	\$	\$	\$	\$
Domestic service	45,319.61	16,918.89	25,628.80	8,795.89	11,993.24
Commercial light service	18,267.38	10,402.99	14,500.10	5,372.97	6,389.96
Commercial power service	41,707.42	13,294.86	9,392.98	444.04	2,036.77
Municipal power	169.56	438.35			
Street lighting	3,037.66	1,700.69	1,882.48	1,690.66	2,006.53
Merchandise		322.92			
Miscellaneous	3,228.62	36.13	652.04	207.98	401.77
Total earnings	111,730.25	43,114.83	52,056.40	16,511.54	22,828.27
EXPENSES					
Power purchased	70,905.76	28,407.57	32,248.48	8,400.75	10,508.67
Substation operation					
Substation maintenance					
Distribution system, operation and maintenance	6,548.88	1,895.37	3,138.73	200.84	376.93
Line transformer maintenance	242.53	64.52	45.47		
Meter maintenance	1,001.24	410.27	409.47	51.78	127.81
Consumers' premises expenses		3,465.56	204.61		
Street lighting, operation and maintenance	402.56	227.05	778.23	431.49	304.54
Promotion of business			4.00		
Billing and collecting	2,611.42	2,008.42	3,721.56	1,528.28	1,326.05
General office, salaries and expenses	3,091.14	876.13	240.23	1,088.49	2,224.26
Undistributed expenses	1,090.93	183.28			13.64
Truck operation and maintenance	1,729.23	72.78			
Interest	2.19	67.25		91.61	
Sinking fund and principal payments on debentures				1,665.66	
Depreciation	4,253.00	2,247.00	2,197.00	1,188.00	905.00
Other reserves					
Total operating costs and fixed charges	91,878.88	39,925.20	42,987.78	14,646.90	15,786.90
Net surplus	19,851.37	3,189.63	9,068.62	1,864.64	7,041.37
Net loss					
NUMBER OF CUSTOMERS					
Domestic service	1,061	455	446	326	339
Commercial light service	179	118	114	61	67
Power service	33	16	8	4	2
Total	1,273	589	568	391	408

Utilities for Year Ended December 31, 1951

Hensall 676	Hespeler 3,799	Highgate 351	Holstein 179	Humber- stone 3,722	Huntsville 3,192	Ingersoll 6,533
\$	\$	\$	\$	\$	\$	\$
8,976.11	39,770.11	2,645.94	1,895.80	21,748.47	33,855.06	65,329.91
5,335.94	14,363.70	1,353.97	557.34	11,113.56	29,373.21	35,994.21
6,316.35	103,579.11	2,401.49	768.19	9,021.53	20,036.77	72,042.24
443.17	2,998.79				1,717.51	7,411.43
1,128.00	6,649.00	760.00	75.00	2,439.96	3,672.00	6,455.58
					191.26	
248.77	2,570.34	164.34	129.09	19.57	76.95	3,340.06
22,448.34	169,931.08	7,325.74	3,425.42	44,343.09	88,922.76	190,573.43
13,763.43	115,820.70	4,695.46	1,708.03	23,515.54	71,075.06	131,755.56
	1,061.99					412.83
838.10	6,341.55	52.30	141.89	2,722.50	6,051.07	11,246.40
47.10	215.86	12.78		237.68	129.40	340.96
26.96	792.24		201.56	568.32	1,439.06	2,398.24
	253.63				142.95	1,750.76
207.17	927.15	85.38	50.50	732.90	1,385.34	911.07
						111.01
440.92	2,642.27	432.25	204.72	2,849.75	2,609.49	5,629.95
781.30	2,613.55	234.70	126.79	1,503.04	2,936.64	7,139.30
116.30	1,328.21	5.00		786.94	1,633.40	2,435.47
	1,495.34			846.68	477.22	2,572.09
						230.87
901.00	5,372.00	431.00	255.00	2,581.00	2,849.00	7,722.00
17,122.28	138,864.49	5,948.87	2,688.49	36,344.35	90,728.63	174,656.51
5,326.06	31,066.59	1,376.87	736.93	7,998.74		15,916.92
					1,805.87	
236	1,017	117	73	982	881	1,853
61	117	29	18	130	183	265
18	35	7	1	16	24	49
315	1,169	153	92	1,128	1,088	2,167

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Iroquois	Jarvis	Kemptville	Kincardine
Population	1,067	645	1,545	2,665
EARNINGS	\$	\$	\$	\$
Domestic service	13,412.16	4,180.47	18,897.54	29,935.02
Commercial light service	5,107.22	3,818.44	9,538.85	15,883.89
Commercial power service	1,282.99	4,287.29	13,822.32	21,551.98
Municipal power	1,078.25		1,369.53	1,444.77
Street lighting	1,589.00	858.00	1,927.00	5,269.22
Merchandise			57.20	
Miscellaneous	335.03	303.63	425.83	1,006.44
Total earnings	22,804.65	13,447.83	46,038.27	75,091.32
EXPENSES				
Power purchased	15,059.95	8,043.43	29,569.79	44,714.82
Substation operation				1,076.92
Substation maintenance				93.16
Distribution system, operation and maintenance	1,250.48	526.68	3,065.45	2,651.43
Line transformer maintenance	279.42		143.70	217.77
Meter maintenance	341.79	127.31	1,515.27	704.84
Consumers' premises expenses			8.60	1,713.98
Street lighting, operation and maintenance	513.37	92.53	180.61	816.57
Promotion of business				
Billing and collecting	1,732.72	885.38	2,033.51	1,809.63
General office, salaries and expenses	1,783.06	64.77	937.08	1,618.74
Undistributed expenses	111.13		186.54	1,134.03
Truck operation and maintenance	305.16		360.83	133.59
Interest			121.99	1.00
Sinking fund and principal payments on debentures				
Depreciation	738.00	588.00	1,909.00	4,041.00
Other reserves				
Total operating costs and fixed charges	22,115.08	10,328.10	40,032.37	60,727.48
Net surplus	689.57	3,119.73	6,005.90	14,363.84
Net loss				
NUMBER OF CUSTOMERS				
Domestic service	356	177	478	868
Commercial light service	64	46	95	154
Power service	7	5	14	24
Total	427	228	587	1,046

Utilities for Year Ended December 31, 1951

Kingston	Kingsville	Kirkfield	Kitchener	Lakefield	Lambeth	Lanark
42,437	2,552	191	48,773	1,760	1,080	775
\$	\$	\$	\$	\$	\$	\$
427,149.64	28,749.76	1,955.22	528,558.76	16,711.72	16,928.07	6,316.84
254,027.32	19,556.40	2,034.05	273,014.14	11,912.06	2,517.56	4,378.31
235,815.44	6,563.12		749,286.10	18,396.08	1,038.06	598.04
17,173.84	1,239.99		50,745.59		695.52	
29,400.23	3,130.56	432.00	54,063.58	2,015.61	1,082.67	780.00
11,653.75	1,470.98	90.00	4,972.99	830.19	257.10	187.19
975,220.22	60,710.81	4,511.27	1,660,641.16	49,865.66	22,518.98	12,260.38
620,707.17	35,436.21	2,257.09	1,082,002.19	26,875.82	13,088.53	5,608.16
13,618.65			21,934.42			
5,258.98			11,370.44			
34,658.03	4,023.38	299.70	57,228.23	2,008.87	451.25	203.90
2,171.67	474.32		6,381.74	51.14	258.57	2.00
12,637.33	740.63	66.27	19,650.91	337.68	19.25	165.20
	7.75		4,128.19		70.17	
7,007.83	839.58	67.05	12,143.35	406.87	366.59	181.22
708.02			725.19			
22,730.34	3,302.15	235.38	28,118.28	2,488.61	1,615.76	649.63
55,974.27	2,509.56	89.25	37,690.10	2,204.73	77.80	183.77
42,460.20	948.79		605.00	288.22		
10,388.04	487.66			822.83		
	561.78		5,861.69		427.50	
	1,927.75		22,200.00		980.27	
60,867.00	2,107.00	222.00	74,861.00	1,302.00	1,130.00	656.00
889,187.53	53,366.56	3,236.74	1,384,900.73	36,786.77	18,485.69	7,649.88
86,032.69	7,344.25	1,274.53	275,740.43	13,078.89	4,033.29	4,610.50
9,982	851	56	11,553	487	370	235
1,228	195	26	1,354	97	33	47
199	24		373	11	7	2
11,409	1,070	82	13,280	595	410	284

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Lancaster	La Salle	Leaming- ton	Lindsay	Listowel
Population	568	1,892	7,541	9,504	3,443
EARNINGS	\$	\$	\$	\$	\$
Domestic service	3,816.18	30,908.90	60,430.86	109,779.35	40,253.40
Commercial light service	2,566.27	7,156.13	35,054.86	64,044.25	27,428.12
Commercial power service		1,050.31	50,741.09	66,604.33	26,810.89
Municipal power			1,310.80	3,721.02	1,746.53
Street lighting	524.50	1,256.50	9,632.56	9,068.01	5,772.42
Merchandise				544.45	267.07
Miscellaneous	157.13	313.66	514.82	823.61	607.44
Total earnings	7,064.08	40,685.50	157,684.99	254,585.02	102,885.87
EXPENSES					
Power purchased	4,826.51	22,511.21	110,278.44	165,471.75	68,275.14
Substation operation			1,084.98		937.23
Substation maintenance					
Distribution system, operation and maintenance	274.10	1,628.62	3,616.60	5,958.35	4,541.85
Line transformer maintenance		251.86	963.16	1,283.56	298.62
Meter maintenance	58.80	378.70	1,704.46	2,539.17	924.44
Consumers' premises expenses		20.38	8.51	5,757.50	604.56
Street lighting, operation and main- tenance	61.73	170.31	1,875.32	663.44	934.35
Promotion of business			63.32		42.71
Billing and collecting	518.70	1,626.79	4,933.34	8,569.54	2,831.99
General office, salaries and expenses	194.22	965.55	7,188.09	14,850.12	2,457.91
Undistributed expenses		65.72	1,908.96	5,675.99	1,048.45
Truck operation and maintenance			1,648.22	2,237.87	434.13
Interest		295.34	18.41		4.41
Sinking fund and principal payments on debentures					
Depreciation	307.00	2,108.00	8,103.00	9,754.00	3,654.00
Other reserves			100.00		
Total operating costs and fixed charges	6,241.06	30,022.48	143,494.81	222,761.29	86,989.79
Net surplus	823.02	10,663.02	14,190.18	31,823.73	15,896.08
Net loss					
NUMBER OF CUSTOMERS					
Domestic service	138	501	2,134	2,719	1,047
Commercial light service	32	42	389	437	188
Power service		4	53	79	35
Total	170	547	2,576	3,235	1,270

Utilities for Year Ended December 31, 1951

London 95,612	London Twp. (V.A.) 3,200	Long Branch 8,520	Lucan 875	Lucknow 857	Lynden 434	Madoc 1,291
\$	\$	\$	\$	\$	\$	\$
936,450.95	36,200.95	83,549.44	11,912.15	9,346.79	5,334.74	13,423.42
430,642.76	4,639.13	23,704.44	5,173.73	5,558.04	1,138.73	10,338.46
725,970.24	1,450.52	34,679.35	1,354.34	8,673.90	1,613.21	9,445.04
43,385.32		2,210.31		536.82		
57,642.31	1,419.74	8,475.38	1,636.02	2,322.17	500.00	2,587.55
4,112.89						
38,436.30	145.08	1,826.95	351.76	666.47	126.64	33.50
2,236,640.77	43,855.42	154,445.87	20,428.00	27,104.19	8,713.32	35,827.97
1,426,856.19	30,480.32	109,393.40	13,003.47	17,584.64	5,868.44	18,687.37
80,865.76						
74,602.30	1,004.87	4,594.72	821.33	1,713.84	48.76	1,607.78
21,131.27	137.44	1,195.54	55.64			130.19
23,839.02	32.95	615.54	.84	135.73	51.03	867.53
167,383.21	441.12	622.85	837.46			103.49
24,136.74	640.72	2,412.23	257.61	290.74	108.50	924.62
1,789.12						
54,717.95	3,128.84	12,154.69	992.06	1,611.73	327.23	1,749.70
115,173.00	326.55	6,372.24	543.66	921.58	300.62	1,098.90
			75.20	67.18		526.52
3,873.14				418.87		
21,011.64	24.05	1,026.92		9.59		7.32
119,270.00	2,184.00	5,727.00	724.00	1,251.00	555.00	1,273.00
14,863.09		250.00				
2,149,512.43	38,400.86	144,365.13	17,311.27	24,004.90	7,259.58	26,976.42
87,128.34	5,454.56	10,080.74	3,116.73	3,099.29	1,453.74	8,851.55
25,012	775	2,280	249	343	132	393
2,491	26	231	61	98	17	115
423	4	28	4	11	3	9
27,926	805	2,539	314	452	152	517

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Magnet- awan* 221	Markdale	Markham	Marmora	Martin- town 125
Population.....		982	1,715	1,117	
EARNINGS	\$	'\$	\$	\$	\$
Domestic service.....	849.30	7,469.93	20,365.41	9,174.07	1,989.88
Commercial light service.....	721.16	6,325.03	7,808.65	6,256.75	1,948.02
Commercial power service.....		2,855.19	4,694.98	1,208.95	
Municipal power.....		345.06	427.63		
Street lighting.....	201.65	1,350.00	1,786.00	2,245.00	253.00
Merchandise.....					
Miscellaneous.....		144.79	433.99	262.84	80.78
Total earnings.....	1,772.11	18,490.00	35,516.66	19,147.61	4,271.68
EXPENSES					
Power purchased.....	736.45	10,854.78	21,801.96	10,525.43	2,378.51
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	75.58	644.27	1,713.57	1,671.90	110.90
Line transformer maintenance.....		137.60	142.90	36.90	
Meter maintenance.....		22.44	87.84	733.61	88.91
Consumers' premises expenses.....		36.60	25.62		
Street lighting, operation and main- tenance.....	18.11	564.78	324.89	213.06	80.00
Promotion of business.....					
Billing and collecting.....	148.68	943.53	1,698.08	1,031.16	460.06
General office, salaries and expenses	105.65	306.30	578.37	669.24	83.02
Undistributed expenses.....				235.91	
Truck operation and maintenance....					
Interest.....					
Sinking fund and principal payments on debentures.....					
Depreciation.....	389.00	1,014.00	1,765.00	935.00	242.00
Other reserves.....					
Total operating costs and fixed charges.....	1,473.47	14,524.30	28,138.23	16,052.21	3,443.40
Net surplus.....	298.64	3,965.70	7,378.43	3,095.40	828.28
Net loss.....					
NUMBER OF CUSTOMERS					
Domestic service.....	66	273	487	308	74
Commercial light service.....	20	86	86	55	28
Power service.....		7	13	2	
Total.....	86	366	586	365	102

* 5 months' operation

Utilities for Year Ended December 31, 1951

Maxville	Meaford	Merlin	Merrickville	Merritton	Midland	Mildmay
776	3,169	635	950	4,783	7,257	850
\$	\$	\$	\$	\$	\$	\$
6,745.25	32,161.42	4,023.70	9,502.48	51,088.26	67,555.00	7,908.57
4,197.04	19,487.85	4,067.23	4,413.06	12,501.10	29,582.57	4,950.32
.....	20,073.08	2,050.61	5,219.41	326,500.29	97,159.71	1,433.87
.....	1,101.96	.....	414.42	2,288.90	3,265.74	172.95
1,104.00	3,874.99	952.00	1,479.96	5,692.00	6,791.00	849.00
.....	597.39	.....	.....	.....	94.80	.....
279.95	983.49	1,304.78	8.41	2,434.67	6,073.18	204.31
12,326.24	78,280.18	12,398.32	21,037.74	400,505.22	210,522.00	15,519.02
6,907.32	47,853.27	6,165.39	10,022.62	290,412.75	152,624.63	8,726.57
.....	.....	.....	.....	546.02	5,882.94	.....
.....	.....	.....	.....	.....	127.33	.....
1,358.32	5,445.49	340.22	768.06	8,867.82	6,834.22	802.60
68.45	341.43	22.67	158.41	.....	1,372.24	.....
544.29	873.66	48.60	214.71	997.06	2,399.30	376.77
.....	333.06	184.48	51.66	114.14	110.17	3.91
533.27	612.41	112.13	275.89	1,045.73	1,578.76	242.13
.....	.....	.....	.....	95.00	23.10	.....
541.31	2,238.04	631.92	892.14	5,483.38	3,817.01	555.14
154.72	1,951.61	1,002.14	507.55	6,338.77	9,751.74	372.02
79.92	734.91	.....	.....	2,518.99	3,332.26	30.44
.....	900.51	.....	.....	968.23	1,944.02	.....
.....	.....	.....	875.00	.....	.....	100.77
.....	.....	.....	900.00	.....	.....	982.50
734.00	3,175.00	1,099.00	686.00	8,004.00	11,724.00	624.00
.....
10,921.60	64,459.39	9,606.55	15,352.04	325,391.89	201,521.72	12,816.85
1,404.64	13,820.79	2,791.77	5,685.70	75,113.33	9,000.28	2,702.17
.....
206	1,019	153	258	1,276	2,064	230
51	190	56	57	95	244	65
.....	27	4	11	22	59	8
257	1,236	213	326	1,393	2,367	303

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Millbrook	Milton	Milverton	Mimico	Mitchell
Population	739	2,460	1,062	11,503	1,951
EARNINGS	\$	\$	\$	\$	\$
Domestic service	9,394.44	29,601.57	12,482.74	136,232.93	29,765.50
Commercial light service	4,493.96	14,638.43	8,253.27	34,640.67	14,228.14
Commercial power service	758.69	41,671.69	9,249.02	24,139.39	15,404.42
Municipal power		1,018.02	534.66	9,866.27	2,292.77
Street lighting	1,135.92	3,754.31	1,334.34	10,389.17	4,040.83
Merchandise		148.54	121.68		1,381.63
Miscellaneous	127.54	522.88	133.35	4,640.22	1,489.38
Total earnings	15,910.55	91,355.44	32,109.06	219,908.65	68,602.67
EXPENSES					
Power purchased	8,350.33	64,136.10	23,451.97	118,373.64	37,984.98
Substation operation					
Substation maintenance		47.76		760.06	1,545.94
Distribution system, operation and maintenance	165.21	2,913.51	1,524.20	20,773.50	4,033.47
Line transformer maintenance	1.55	83.65	114.17	133.41	539.28
Meter maintenance	179.25	1,015.79	165.71	302.03	613.10
Consumers' premises expenses	7.75	1,101.45	2.15	1,069.10	2,284.66
Street lighting, operation and maintenance	234.79	913.22	220.30	2,538.50	673.01
Promotion of business					
Billing and collecting	1,700.99	3,649.55	1,200.21	8,236.02	1,598.39
General office, salaries and expenses	1,409.66	5,597.82	781.37	8,792.60	1,989.96
Undistributed expenses			48.68		1,978.67
Truck operation and maintenance			234.61		1,022.35
Interest		271.05	67.27		186.50
Sinking fund and principal payments on debentures					
Depreciation	526.00	5,174.00	1,252.00	13,211.00	2,611.00
Other reserves					
Total operating costs and fixed charges	12,575.53	84,903.90	29,062.64	174,189.86	57,061.31
Net surplus	3,335.02	6,451.54	3,046.42	45,718.79	11,541.36
Net loss					
NUMBER OF CUSTOMERS					
Domestic service	251	723	316	3,151	610
Commercial light service	61	154	87	251	129
Power service	2	23	16	45	26
Total	314	900	419	3,447	765

Utilities for Year Ended December 31, 1951

Moorefield 278	Morrisburg 1,876	Mount Brydges 637	Mount Forest 2,170	Napanee 3,803	Neustadt 462	Newboro 309
\$	\$	\$	\$	\$	\$	\$
2,622.90	19,158.65	5,277.62	21,846.35	50,260.17	3,825.57	3,685.37
1,653.61	13,097.10	1,611.39	15,412.46	35,203.71	2,327.97	1,811.49
1,368.44	6,924.65	934.98	11,173.45	21,740.32	1,222.70	
	1,498.80		909.04	898.95		
350.00	3,343.75	940.53	2,695.81	4,430.45	644.00	759.96
				5,997.81		
61.24	1,542.11	173.93	738.28	430.44	462.92	
6,056.19	45,565.06	8,938.45	52,775.39	118,961.85	8,483.16	6,256.82
4,066.22	24,252.09	6,516.31	32,890.52	70,315.11	3,705.42	2,574.74
	3,097.04					
45.22	1,315.19	407.27	2,238.03	4,184.57	126.45	57.71
8.00	350.00	1.78	104.86	114.52		72.20
112.70	784.13	3.90	430.71	1,054.81	82.04	12.17
		6.93		2,079.83		
53.38	918.03	182.82	497.99	1,036.65	33.34	80.17
207.84	2,439.67	1,059.36	1,804.09	4,017.37	837.15	292.80
62.76	2,091.04	38.58	454.08	10,016.42	481.16	93.04
5.00	1,031.55		179.43	1,565.28	30.18	
	903.44		899.10	215.50		
		2.15	1.25	100.93	3.01	493.06
						651.65
216.00	1,384.00	802.00	1,422.00	4,185.00	568.00	388.00
4,777.12	38,566.18	9,021.10	40,922.06	98,885.99	5,866.75	4,715.54
1,279.07	6,998.88		11,853.33	20,075.86	2,616.41	1,541.28
		82.65				
84	522	210	629	1,128	148	83
38	149	50	159	240	35	17
2	35	6	21	31	3	
124	706	266	809	1,399	186	100

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Newburgh	Newbury	Newcastle	New Hamburg	New- market
Population.....	453	289	895	1,726	5,244
EARNINGS	\$	\$	\$	\$	\$
Domestic service.....	4,903.05	3,257.49	10,730.34	21,022.24	58,997.22
Commercial light service.....	2,115.12	1,452.50	5,082.90	10,882.07	30,842.47
Commercial power service.....	448.41	260.77	7,097.79	12,740.66	35,254.32
Municipal power.....					2,196.50
Street lighting.....	537.50	720.00	1,502.94	2,232.90	7,527.50
Merchandise.....				842.67	36.06
Miscellaneous.....	2.85	197.02	318.50	368.33	67.08
Total earnings.....	8,006.93	5,887.78	24,732.47	48,088.87	134,921.15
EXPENSES					
Power purchased.....	4,140.48	3,421.28	15,006.20	32,674.54	92,523.02
Substation operation.....				387.56	
Substation maintenance.....					222.90
Distribution system, operation and maintenance.....	105.50	209.06	1,800.27	1,786.86	7,848.96
Line transformer maintenance.....	26.76			47.60	1,362.99
Meter maintenance.....	81.04	76.38	428.41	520.56	751.60
Consumers' premises expenses.....			185.54	805.92	
Street lighting, operation and main- tenance.....	30.06	145.63	401.08	275.31	1,998.11
Promotion of business.....					
Billing and collecting.....	606.41	234.39	1,541.07	1,511.81	3,461.80
General office, salaries and expenses	235.25	195.30	867.19	1,296.37	4,768.87
Undistributed expenses.....		2.24	291.59	537.03	
Truck operation and maintenance.....			217.35	699.32	
Interest.....	520.00			1.25	2,141.30
Sinking fund and principal payments on debentures.....	1,000.00				2,121.66
Depreciation.....	595.00	354.00	752.00	2,179.00	6,216.00
Other reserves.....					318.00
Total operating costs and fixed charges.....	7,340.50	4,638.28	21,490.70	42,723.13	123,735.21
Net surplus.....	666.43	1,249.50	3,241.77	5,365.74	11,185.94
Net loss.....					
NUMBER OF CUSTOMERS					
Domestic service.....	126	94	286	464	1,550
Commercial light service.....	23	22	42	119	250
Power service.....	2	1	10	17	43
Total.....	151	117	338	600	1,843

Utilities for Year Ended December 31, 1951

New Toronto 11,072	Niagara 2,160	Niagara Falls 22,686	North York Twp. 80,771	Norwich 1,380	Norwood 951	Oakville 6,691
\$	\$	\$	\$	\$	\$	\$
101,252.52	37,932.32	201,625.18	1,383,725.23	17,731.16	10,265.48	71,419.35
52,262.81	11,986.08	142,717.03	226,050.41	9,535.66	5,564.72	53,535.96
316,248.13	2,169.86	159,009.48	222,944.15	3,131.50	4,561.42	79,203.99
13,739.68	961.72	18,702.58	21,489.99	496.21	236.96	6,300.07
9,746.04	4,696.08	44,058.06	31,987.85	2,530.50	1,989.15	5,793.09
.....	1,452.03	.....	.....	530.00	.....	.....
6,960.82	165.81	5,858.41	6,505.29	377.54	496.47	.....
500,209.98	59,363.90	571,970.74	1,892,702.92	34,332.57	23,114.20	216,252.46
361,283.27	30,866.05	319,658.92	1,145,897.64	23,323.08	12,690.08	129,994.69
.....	160.60	18,094.27	6,332.52	.....	.....	221.16
10,817.43	3,060.40	30,198.21	130,776.86	4,342.85	573.24	5,398.27
2,020.98	393.74	2,054.31	15,692.97	30.25	.....	1,140.25
3,539.97	788.70	11,233.74	8,683.84	149.32	128.04	879.64
70.40	40.94	9,286.15	5,811.89	1,430.35	.....	896.11
2,490.51	853.50	4,778.85	8,512.92	399.40	539.96	2,210.53
7,237.80	2,133.96	18,341.67	83,608.93	1,021.71	1,031.92	8,733.95
16,579.40	2,096.91	22,435.29	43,830.95	1,094.34	1,438.00	14,749.34
.....	877.73	11,028.59	.....	231.21	.....	.....
.....	749.45	4,336.18	.....	239.11	.....	.....
.....	168.00	.....	86,616.69	148.97	.....	701.32
.....	1,200.00	.....	84,577.17	.....	.....	.....
11,917.00	4,166.00	42,982.00	89,834.00	1,476.00	1,105.00	6,419.00
500.00	.....	.....	4,635.00	.....	.....	4,140.83
416,456.76	47,555.98	494,428.18	1,714,811.38	33,886.59	17,506.24	175,485.09
83,753.22	11,807.92	77,542.56	177,891.54	445.98	5,607.96	40,767.37
.....
2,430	868	5,822	26,036	463	278	1,890
296	112	982	1,437	98	76	274
68	13	154	207	11	5	78
2,794	993	6,958	27,680	572	359	2,242

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Oil Springs	Omamee	Orange- ville	Orono	Oshawa
Population.....	448	750	3,302	719	40,727
EARNINGS	\$	\$	\$	\$	\$
Domestic service.....	3,283.09	6,961.57	34,511.36	9,513.12	524,904.05
Commercial light service.....	1,972.92	3,228.26	23,798.38	3,443.96	186,565.53
Commercial power service.....	5,390.36	2,362.96	9,122.21	371.03	619,532.54
Municipal power.....	188.00		777.01		17,664.63
Street lighting.....	763.68	1,167.39	4,896.38	1,172.50	44,786.57
Merchandise.....			226.74		
Miscellaneous.....	490.04	243.11	1,540.54	250.21	27,414.37
Total earnings.....	12,088.09	13,963.29	74,872.62	14,750.82	1,420,867.69
EXPENSES					
Power purchased.....	7,055.10	7,742.76	46,510.66	6,572.53	950,123.53
Substation operation.....					3,265.75
Substation maintenance.....					
Distribution system, operation and maintenance.....	762.64	1,052.71	3,378.12	305.99	35,655.72
Line transformer maintenance.....	34.51	130.68	257.91		939.46
Meter maintenance.....	11.46	433.35	701.68	216.76	12,275.18
Consumers' premises expenses.....	9.86	9.72	15.75		13,054.60
Street lighting, operation and main- tenance.....	68.20	446.85	947.82	183.45	6,030.69
Promotion of business.....					425.20
Billing and collecting.....	761.03	782.60	2,826.90	1,118.26	30,929.65
General office, salaries and expenses	466.00	257.24	1,398.81	1,753.49	35,583.11
Undistributed expenses.....		49.95	339.73	152.69	
Truck operation and maintenance.....			287.05	188.33	
Interest.....					12,254.82
Sinking fund and principal payments on debentures.....					
Depreciation.....	918.00	819.00	3,736.00	550.00	43,201.00
Other reserves.....					
Total operating costs and fixed charges.....	10,086.80	11,724.86	60,400.43	11,041.50	1,143,738.71
Net surplus.....	2,001.29	2,238.43	14,472.19	3,709.32	277,128.98
Net loss.....					
NUMBER OF CUSTOMERS					
Domestic service.....	130	226	929	238	10,924
Commercial light service.....	38	40	225	43	1,049
Power service.....	33	6	32	3	184
Total.....	201	272	1,186	284	12,157

Utilities for Year Ended December 31, 1951

Ottawa	Otterville	Owen Sound	Paisley	Palmerston	Paris	Parkhill
195,067	588	16,898	729	1,570	5,274	975
\$	\$	\$	\$	\$	\$	\$
2,380,510.89	6,411.51	183,616.41	8,755.11	20,002.79	47,777.60	14,032.80
1,918,865.43	2,967.55	102,681.47	5,125.93	10,915.33	16,574.74	8,094.58
595,376.58	752.81	129,423.68	2,201.57	9,192.91	35,390.96	5,174.81
150,240.56	114.46		249.58	1,304.25	1,190.86	714.26
134,416.92	950.50	14,802.36	1,734.30	2,918.04	7,013.00	2,410.92
		897.23	35.70	107.07		
53,519.38	174.72	3,593.06	147.17	698.13	752.06	57.84
5,232,929.76	11,371.55	435,014.21	18,249.36	45,138.52	108,699.22	30,485.21
2,523,534.09	7,613.35	267,170.50	9,715.11	26,917.10	74,057.43	18,393.76
337,183.06		10,277.48				
20,794.12		378.56			1,328.19	
213,077.91	621.78	14,105.02	1,149.90	1,546.08	4,688.80	1,701.65
32,858.67	28.89	2,266.40	16.18	291.52	625.32	137.63
54,836.95	146.93	2,797.42	209.37	866.22	1,355.73	137.20
26,977.36	112.14	7,019.94	6.48	281.24	211.18	317.30
30,973.33	134.67	3,894.07	431.50	652.26	3,039.56	274.37
9,937.99		208.95				
211,627.50	457.96	17,559.41	887.65	1,589.20	2,736.66	1,058.30
102,221.76	431.65	17,326.58	729.48	1,424.56	2,736.10	385.25
	4.80	2,945.51	12.48	174.48	1,368.56	106.77
				508.66	2,457.27	246.05
169,362.68		3,255.65			121.00	525.00
252,908.14		5,500.00				600.00
403,015.00	591.00	17,778.00	1,089.00	1,672.00	5,177.00	1,619.00
34,284.00						
4,423,592.56	10,143.17	372,483.49	14,247.15	35,923.32	99,902.80	25,502.28
809,337.20	1,228.38	62,530.72	4,002.21	9,215.20	8,796.42	4,982.93
51,951	192	4,540	251	493	1,361	350
7,428	68	659	63	106	205	94
982	9	123	7	22	32	12
60,361	269	5,322	321	621	1,598	456

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Parry Sound	Penetang- uishene	Perth	Peter- borough
Population	5,215	4,964	4,920	37,192
EARNINGS	\$	\$	\$	\$
Domestic service	54,604.75	28,224.83	51,891.77	440,033.06
Commercial light service	35,211.33	16,825.06	28,057.41	184,096.95
Commercial power service	11,616.09	23,719.43	23,196.25	365,796.51
Municipal power	3,184.20	2,000.78	1,136.51	11,001.84
Street lighting	7,926.45	3,180.16	5,295.81	34,699.98
Merchandise		145.81	3,800.69	
Miscellaneous	4,659.67	2,164.95	2,931.74	2,833.99
Total earnings	117,202.49	76,261.02	116,310.18	1,038,462.33
EXPENSES				
Power purchased	27,424.93	50,750.35	75,650.53	670,159.11
Substation operation	12,515.91		122.50	16,413.46
Substation maintenance	714.07			3,934.92
Distribution system, operation and maintenance	5,539.91	6,981.88	3,871.43	38,897.53
Line transformer maintenance	156.50	514.21	368.06	2,547.36
Meter maintenance	2,088.58	1,286.00	1,042.03	23,980.37
Consumers' premises expenses	226.64	110.65	41.96	17,598.81
Street lighting, operation and main- tenance	1,028.90	879.14	949.67	13,855.51
Promotion of business				70.53
Billing and collecting	3,951.95	3,135.70	3,731.61	28,375.27
General office, salaries and expenses ..	8,627.88	2,540.86	5,568.30	17,092.16
Undistributed expenses	2,883.47	1,345.95	571.15	24,485.59
Truck operation and maintenance	2,166.25	433.49	2,305.44	9,637.92
Interest	162.81		251.36	6,967.25
Sinking fund and principal payments on debentures	1,616.44		4,071.09	11,400.00
Depreciation	9,757.00	3,293.00	4,273.00	55,551.00
Other reserves				450.00
Total operating costs and fixed charges	78,861.24	71,271.23	102,818.13	941,416.79
Net surplus	38,341.25	4,989.79	13,492.05	97,045.54
Net loss				
NUMBER OF CUSTOMERS				
Domestic service	1,343	1,038	1,414	9,964
Commercial light service	247	156	238	1,250
Power service	20	19	36	200
Total	1,610	1,213	1,688	11,414

Utilities for Year Ended December 31, 1951

Petrolia 3,118	Picton 4,103	Plattsville 402	Point Edward 1,787	Port Colborne 8,300	Port Credit 3,651	Port Dalhousie 2,462
\$	\$	\$	\$	\$	\$	\$
24,840.53	45,309.72	6,370.16	17,833.86	55,328.71	51,550.38	42,815.80
17,832.80	28,830.89	3,650.62	7,422.59	40,609.18	19,445.26	8,627.21
27,978.25	14,873.70	4,341.41	97,223.54	31,461.68	10,965.40	9,076.69
	3,173.02			7,761.31	2,271.90	
3,819.02	3,935.54	459.00	2,275.54	9,741.14	3,773.60	2,449.25
	511.49					
1,280.85	208.61	143.56	1,996.03	3,370.27	272.02	3.94
75,751.45	96,842.97	14,964.75	126,751.56	148,272.29	88,278.56	62,972.89
41,232.10	70,885.78	10,850.82	82,767.58	77,517.82	54,981.69	35,559.10
292.92	255.00					
4,482.72	2,389.40	95.89	1,464.65	11,943.81	3,570.43	5,559.71
387.24	628.20	41.60	810.81	1,189.33	378.90	269.68
1,254.50	1,442.48	58.84	868.91	1,765.82	367.13	1,815.42
2,703.02	76.66		1,966.27	2,843.40	1,670.67	556.45
782.75	631.98	29.15	524.94	3,323.85	1,146.63	399.63
			56.49			
3,923.31	5,352.40	316.08	2,808.55	6,387.48	3,392.28	2,799.37
5,736.99	2,000.56	39.81	3,888.68	5,130.34	1,044.74	3,021.46
3,117.38	673.29	5.00	28.08	2,022.45		1,091.09
2,093.66	678.75			1,569.34		1,310.76
73.84			56.64		1,322.89	528.17
					3,476.51	1,499.82
6,262.00	5,642.00	431.00	2,441.00	7,680.00	4,384.00	2,379.00
					180.41	
72,342.43	90,656.50	11,868.19	97,682.60	121,373.64	75,916.28	56,789.66
3,409.02	6,186.47	3,096.56	29,068.96	26,898.65	12,362.28	6,183.23
901	1,304	140	489	2,057	1,042	914
183	263	30	65	292	139	84
60	37	2	13	35	21	12
1,144	1,604	172	567	2,384	1,202	1,010

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Port Dover	Port Elgin	Port Hope	Port McNicol	Port Perry
Population	2,385	1,610	6,327	853	1,725
EARNINGS	\$	\$	\$	\$	\$
Domestic service	21,341.36	28,221.24	82,449.61	8,702.13	22,421.55
Commercial light service	11,794.39	14,088.75	35,051.29	1,926.23	10,135.30
Commercial power service	9,143.69	6,066.47	84,901.09	10,284.04	3,732.70
Municipal power		1,579.08	2,397.60	529.68	
Street lighting	3,321.97	3,341.81	7,753.76	1,065.00	1,860.00
Merchandise				30.46	75.00
Miscellaneous	75.25	391.06	392.19	32.36	488.68
Total earnings	45,676.66	53,688.41	212,945.54	22,569.90	38,713.23
EXPENSES					
Power purchased	29,938.54	29,398.72	157,665.87	15,519.65	20,335.64
Substation operation			199.86		
Substation maintenance					
Distribution system, operation and maintenance	4,096.24	4,245.91	3,669.46	608.89	2,054.70
Line transformer maintenance	298.47	131.46	439.53	44.73	398.24
Meter maintenance	1,006.02	234.79	1,659.56	124.16	446.50
Consumers' premises expenses	21.56	121.81	1,494.11	2.50	650.78
Street lighting, operation and main- tenance	569.12	460.59	1,354.63	138.29	368.22
Promotion of business					
Billing and collecting	1,510.48	2,524.70	5,762.31	873.87	1,689.89
General office, salaries and expenses	1,833.11	1,105.31	7,600.15	443.50	1,046.12
Undistributed expenses	212.93	141.50	4,210.04	68.04	
Truck operation and maintenance ..	413.63	1,573.72	2,914.94		
Interest	15.13		375.00	136.53	
Sinking fund and principal payments on debentures			1,083.34	200.00	
Depreciation	3,572.00	2,068.00	7,347.00	764.00	1,446.00
Other reserves					
Total operating costs and fixed charges	43,487.23	42,006.51	195,775.80	18,924.16	28,436.09
Net surplus	2,189.43	11,681.90	17,169.74	3,645.74	10,277.14
Net loss					
NUMBER OF CUSTOMERS					
Domestic service	1,020	683	1,923	339	514
Commercial light service	177	151	275	29	105
Power service	22	14	46	2	12
Total	1,219	848	2,244	370	631

Utilities for Year Ended December 31, 1951

Port Rowan 783	Port Stanley 1,205	Prescott 3,449	Preston 7,518	Priceville 153	Princeton 334	Queenston 332
\$	\$	\$	\$	\$	\$	\$
5,660.68	29,164.79	43,454.19	76,333.84	1,838.53	4,721.29	5,673.44
6,081.20	10,764.29	22,934.61	32,027.63	1,023.41	1,812.92	3,421.27
264.76	14,240.07	17,560.34	93,301.40		2,092.93	
467.62	1,139.67	1,605.25	2,147.60			
980.37	3,299.50	4,812.30	9,273.62	267.00	583.00	627.00
14.92	485.00	423.24	602.23	.51	217.78	200.87
13,469.55	59,093.32	90,789.93	213,686.32	3,129.45	9,427.92	9,922.58
6,802.25	32,813.44	53,106.12	153,432.40	845.24	6,012.73	5,184.49
		2,437.51	4,565.57			
			2,959.74			
722.65	4,424.10	3,298.31	5,653.94	72.35	217.02	1,260.03
142.17	292.43	126.42	653.88		1.25	67.84
28.92	437.81	1,208.55	1,351.47	84.06	64.61	30.59
	90.71	1,020.37	663.49			341.84
161.66	842.41	1,244.57	1,516.42	43.68	120.62	145.15
527.40	2,261.53	3,691.57	3,987.82	177.36	285.89	328.19
148.29	1,278.16	4,730.27	6,404.21	80.49	64.86	333.63
36.14	961.80	724.34	3,073.95			12.15
66.03	498.16	491.74	2,129.32			
57.19	57.31	420.00	900.28	219.37		
		1,000.00		225.00		
835.00	3,080.00	2,992.00	13,862.00	354.00	272.00	574.00
9,527.70	47,037.86	76,491.77	201,154.49	2,101.55	7,038.98	8,277.91
3,941.85	12,055.46	14,298.16	12,531.83	1,027.90	2,388.94	1,644.67
229	1,048	944	1,951	50	116	105
78	124	184	262	12	29	23
4	17	28	65		4	
311	1,189	1,156	2,278	62	149	128

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Renfrew	Richmond	Richmond Hill	Ridgetown	Ripley
Population	7,368	570	2,228	2,275	454
EARNINGS	\$	\$	\$	\$	\$
Domestic service	62,572.51	6,653.85	30,805.83	16,170.81	6,079.14
Commercial light service	28,319.24	3,125.07	11,681.20	15,436.32	3,620.99
Commercial power service	61,088.69		3,100.37	8,661.48	1,959.14
Municipal power	3,962.26		1,110.25	1,671.98	583.54
Street lighting	6,479.83	607.50	1,613.67	4,972.04	1,190.00
Merchandise					
Miscellaneous	5,567.32		148.40	521.20	8.54
Total earnings	167,989.85	10,386.42	48,459.72	47,433.83	13,441.35
EXPENSES					
Power purchased	55,194.53	7,446.31	32,353.31	27,452.55	6,107.13
Substation operation	34,950.34				
Substation maintenance	1,860.70				
Distribution system, operation and maintenance	5,794.82	72.54	829.40	1,654.62	863.25
Line transformer maintenance	861.76	31.63	90.23	115.58	
Meter maintenance	761.66	41.15		745.41	130.50
Consumers' premises expenses	15.29		15.35	93.27	
Street lighting, operation and maintenance	862.37	60.56	283.53	1,395.75	114.46
Promotion of business					
Billing and collecting	5,443.77	317.55	2,464.02	2,921.00	472.88
General office, salaries and expenses	10,241.41	72.00	450.74	3,316.56	149.20
Undistributed expenses	6,895.85				
Truck operation and maintenance	1,636.39			332.78	
Interest	1,294.20	93.36		6.08	
Sinking fund and principal payments on debentures	8,326.34				
Depreciation	16,077.00	482.00	1,790.00	2,478.00	738.00
Other reserves					
Total operating costs and fixed charges	150,216.43	8,617.10	38,276.58	40,511.60	8,575.42
Net surplus	17,773.42	1,769.32	10,183.14	6,922.23	4,865.93
Net loss					
NUMBER OF CUSTOMERS					
Domestic service	1,830	158	668	730	148
Commercial light service	266	27	115	163	55
Power service	73		19	28	3
Total	2,169	185	802	921	206

Utilities for Year Ended December 31, 1951

Riverside	Rockwood	Rodney	Rosseau	Russell	St. Catharines	St. Clair Beach
9,535	683	913	197	475	38,146	528
\$	\$	\$	\$	\$	\$	\$
123,872.10	9,291.28	6,041.55	2,549.70	5,818.94	363,958.88	7,935.88
18,177.08	3,070.81	4,326.72	2,424.94	3,366.50	211,952.94	3,271.81
8,245.97	69.29	3,821.16		391.20	680,040.72	255.09
4,613.07						
6,601.66	1,038.94	1,181.20	940.02	880.00	37,979.00	336.00
3,538.64	105.19	295.29	45.00	32.50	12,553.37	286.32
165,048.52	13,575.51	15,665.92	5,959.66	10,489.14	1,306,484.91	12,085.10
96,580.45	8,570.34	9,503.26	2,411.14	7,201.30	931,360.04	6,026.13
99.52					16,106.42	
4,230.36	536.40	1,053.57	244.93	192.88	68,202.33	433.13
141.15		26.90		6.25	5,687.02	59.55
1,244.32	82.16	242.15	33.48	88.50	19,966.05	49.90
11,217.53					4,610.47	194.29
1,542.07	159.00	314.34	66.10	74.00	7,109.79	36.68
					601.48	
3,699.79	748.73	886.89	388.61	584.75	37,512.02	519.45
6,117.26	570.26	281.02	132.98	156.47	17,775.96	931.51
1,948.03	6.67	32.30	5.00		20,244.82	
2,815.55					11,805.71	
756.96	9.56		153.23		43.75	10.75
	191.05		951.62		1,750.00	
8,234.00	549.00	1,037.00	263.00	513.00	46,515.00	506.00
138,627.35	11,423.17	13,377.43	4,650.09	8,817.15	1,189,290.86	8,767.39
26,421.17	2,152.34	2,288.49	1,309.57	1,671.99	117,194.05	3,317.71
2,794	216	312	87	143	10,642	178
150	38	79	16	38	1,398	15
17	2	9		2	287	1
2,961	256	400	103	183	12,327	194

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	St. George	St. Jacobs	St. Marys	St. Thomas
Population	631	705	4,112	18,775
EARNINGS	\$	\$	\$	\$
Domestic service	5,502.54	8,081.71	65,369.01	216,405.07
Commercial light service	3,887.00	3,519.41	23,989.25	99,012.27
Commercial power service	3,662.94	4,068.87	36,535.81	135,141.02
Municipal power			2,093.34	5,967.07
Street lighting	977.00	506.00	5,699.25	16,854.59
Merchandise				
Miscellaneous	186.37	306.19	438.23	5,295.11
Total earnings	14,215.85	16,482.18	134,124.89	478,675.13
EXPENSES				
Power purchased	7,992.64	12,154.44	73,273.09	308,045.18
Substation operation			2,094.81	18,959.55
Substation maintenance			8.78	1,355.54
Distribution system, operation and maintenance	190.63	147.24	4,050.43	27,463.45
Line transformer maintenance			251.87	2,222.96
Meter maintenance	21.14	89.12	463.32	6,113.41
Consumers' premises expenses			7,644.73	19,230.82
Street lighting, operation and maintenance	203.52	55.99	1,667.92	4,056.18
Promotion of business			27.24	623.27
Billing and collecting	786.07	856.41	3,276.31	19,503.67
General office, salaries and expenses	201.19	202.05	5,110.84	16,099.98
Undistributed expenses	33.51		1,956.47	
Truck operation and maintenance				
Interest			1,484.91	72.85
Sinking fund and principal payments on debentures			3,443.83	
Depreciation	758.00	730.00	8,184.00	15,978.00
Other reserves				
Total operating costs and fixed charges	10,186.70	14,235.25	112,938.55	439,724.86
Net surplus	4,029.15	2,246.93	21,186.34	38,950.27
Net loss				
NUMBER OF CUSTOMERS				
Domestic service	195	172	1,219	5,401
Commercial light service	46	39	201	680
Power service	5	8	44	101
Total	246	219	1,464	6,182

Utilities for Year Ended December 31, 1951

Sarnia 33,976	Scarborough Twp. 56,161	Seaforth 2,121	Shelburne 1,274	Simcoe 7,085	Smiths Falls 8,339
\$	\$	\$	\$	\$	\$
308,849.19	580,160.21	26,740.16	12,462.46	50,092.30	99,977.34
158,404.78	144,057.81	19,300.64	7,849.67	55,133.03	50,223.21
390,899.13	141,395.20	18,461.43	4,591.99	44,356.79	40,631.72
9,467.99	27,318.45	748.21	425.32	3,260.12	448.19
26,890.25	28,322.01	4,157.67	1,197.00	9,737.39	9,414.41
9,581.56			4.50		
11,921.75	3,191.38	583.18	234.50	4,864.03	2,217.99
916,014.65	924,445.06	69,991.29	26,765.44	167,443.66	202,912.86
555,896.72	573,010.77	42,626.41	19,607.06	102,148.10	128,075.13
26,556.34	2,845.96			497.75	501.53
2,039.64		349.25			1,548.61
33,991.74	35,437.99	3,213.40	973.98	10,947.74	10,154.94
4,759.79	7,021.95	642.94	74.63	1,390.11	333.15
15,202.88	704.49	97.36	347.54	4,407.05	1,380.04
39,096.80	11,331.97	343.00		2,099.72	633.47
9,483.35	7,393.48	741.22	390.57	2,569.57	1,525.09
406.09		488.67		188.10	
21,228.90	26,002.66	1,868.93	1,142.83	5,254.28	7,833.17
49,185.35	22,740.36	1,636.27	732.81	4,451.95	8,019.44
17,079.87		954.49	39.00	1,455.29	594.47
9,554.37		950.56		4,213.02	3,259.20
10,052.70	47,319.57	403.27		198.85	
12,693.00	17,000.00	682.44		917.06	
42,039.00	42,019.00	3,073.00	1,356.00	9,865.00	11,563.00
	10,417.00				
849,266.54	803,245.20	58,071.21	24,664.42	150,503.59	175,421.24
66,748.11	121,199.86	11,920.08	2,101.02	16,940.07	27,491.62
9,347	14,263	629	397	2,062	2,418
1,005	1,019	120	98	468	354
112	164	22	13	74	48
10,464	15,446	771	508	2,604	2,820

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Smithville	Southamp- ton	Springfield	Stamford Twp.
Population	658	1,619	517	18,225
EARNINGS	\$	\$	\$	\$
Domestic service	6,027.49	22,427.14	4,178.81	192,866.05
Commercial light service	4,548.43	10,791.10	1,745.59	46,429.48
Commercial power service	11,483.01	14,551.19	1,539.51	39,881.70
Municipal power		1,055.85		2,878.85
Street lighting	1,637.00	4,020.61	782.50	13,861.06
Merchandise				1,616.06
Miscellaneous	397.70	182.58	74.16	
Total earnings	24,093.63	53,028.47	8,320.57	297,533.20
EXPENSES				
Power purchased	14,620.53	29,293.25	4,147.94	145,432.72
Substation operation				1,587.57
Substation maintenance				
Distribution system, operation and maintenance	1,527.06	3,620.49	141.49	22,209.41
Line transformer maintenance	84.51	333.10	18.84	2,016.84
Meter maintenance	266.30	324.09	101.33	7,137.00
Consumers' premises expenses	193.40	254.73	12.13	3,392.09
Street lighting, operation and main- tenance	260.96	687.69	206.75	3,773.54
Promotion of business				
Billing and collecting	1,582.50	1,733.99	513.89	11,528.61
General office, salaries and expenses ..	840.18	921.70	330.65	8,971.12
Undistributed expenses	120.93	164.05		10,359.66
Truck operation and maintenance	868.26	1,009.25		8,614.31
Interest				6,322.86
Sinking fund and principal payments on debentures				8,066.66
Depreciation	909.00	2,254.00	724.00	21,208.00
Other reserves				
Total operating costs and fixed charges	21,273.63	40,596.34	6,197.02	260,620.39
Net surplus	2,820.00	12,432.13	2,123.55	36,912.81
Net loss				
NUMBER OF CUSTOMERS				
Domestic service	220	792	133	4,395
Commercial light service	70	93	33	305
Power service	9	14	4	39
Total	299	899	170	4,739

Utilities for Year Ended December 31, 1951

Stayner 1,241	Stirling 1,157	Stoney Creek 1,805	Stouffville 1,701	Stratford 18,878	Strathroy 3,688
\$	\$	\$	\$	\$	\$
13,385.97	14,498.41	27,027.86	17,086.07	238,209.76	50,095.22
7,072.90	7,579.27	11,585.82	9,839.64	86,765.73	25,732.11
4,385.05	2,718.45	3,356.20	8,459.54	92,291.96	26,495.69
88.43	319.42	1,157.52	.....	10,934.69	2,652.59
1,729.99	1,820.32	1,459.32	1,657.00	17,780.04	6,380.96
78.52	142.30	.....	.....	52.15	.....
384.25	516.13	311.12	193.83	17,998.20	274.38
27,125.11	27,594.30	44,897.84	37,236.08	464,032.53	111,630.95
16,130.33	16,160.65	25,840.50	27,840.26	296,043.66	72,585.11
.....	447.76	.....	.....	12,563.64	835.92
.....	.....	.....	.....	3,841.45	.....
659.27	3,480.06	1,311.34	1,350.74	10,179.53	6,563.18
18.55	45.83	781.48	354.32	2,944.29	1,785.67
259.67	146.56	249.63	138.34	4,903.56	543.93
77.36	4.13	325.85	192.94	9,184.02	89.69
292.72	462.92	250.01	235.20	3,764.84	1,808.33
.....	.....	.....	.....	1,345.00	.....
1,519.24	1,355.49	2,225.10	1,597.90	16,739.57	2,254.85
845.14	1,866.70	87.93	570.90	16,707.48	5,449.78
.....	208.15	.....	.....	4,906.10	1,246.14
.....	165.94	.....	.....	5,071.93	828.69
.....	.....	1,299.26	.....	2,650.00	81.57
.....	.....	1,515.19	.....	900.00	1,523.28
990.00	1,542.00	1,848.00	1,214.00	22,267.00	3,961.00
.....
20,792.28	25,886.19	35,734.29	33,494.60	414,012.07	99,557.14
6,332.83	1,708.11	9,163.55	3,741.48	50,020.46	12,073.81
.....
.....
387	367	551	527	5,251	1,137
101	89	89	102	692	220
19	15	12	11	145	43
507	471	652	640	6,088	1,400

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Streetsville	Sunderland	Sutton	Swansea
Population.....	1,100	521	1,235	8,080
EARNINGS	\$	\$	\$	\$
Domestic service.....	15,073.27	6,650.95	15,793.76	122,066.54
Commercial light service.....	6,280.05	3,912.54	12,668.52	28,257.60
Commercial power service.....	16,592.32	3,377.20	4,139.73	37,287.93
Municipal power.....	413.76			905.93
Street lighting.....	2,077.33	933.14	2,553.00	8,429.38
Merchandise.....				
Miscellaneous.....	438.13	4.44	225.64	546.97
Total earnings.....	40,874.86	14,878.27	35,380.65	197,494.35
EXPENSES				
Power purchased.....	25,244.24	8,632.98	20,082.05	118,549.01
Substation operation.....				
Substation maintenance.....	2,576.01			1,211.56
Distribution system, operation and maintenance.....	687.31	639.01	1,799.80	5,469.09
Line transformer maintenance.....	581.66	25.00	329.32	832.72
Meter maintenance.....	608.66	136.91	11.77	220.67
Consumers' premises expenses.....	44.40		72.86	11,512.07
Street lighting, operation and maintenance.....	566.13	135.35	424.89	1,617.89
Promotion of business.....				
Billing and collecting.....	2,030.32	628.71	1,643.24	8,929.03
General office, salaries and expenses..	1,289.84	204.33	326.26	3,318.43
Undistributed expenses.....		5.00		
Truck operation and maintenance.....				
Interest.....				1,275.37
Sinking fund and principal payments on debentures.....				3,671.90
Depreciation.....	1,600.00	586.00	1,890.00	8,815.00
Other reserves.....	96.00			
Total operating costs and fixed charges.....	35,324.57	10,993.29	26,580.19	165,422.74
Net surplus.....	5,550.29	3,884.98	8,800.46	32,071.61
Net loss.....				
NUMBER OF CUSTOMERS				
Domestic service.....	320	182	600	2,464
Commercial light service.....	71	46	131	140
Power service.....	13	3	9	29
Total.....	404	231	740	2,633

Utilities for Year Ended December 31, 1951

Tara 490	Tavistock 1,096	Tecumseh 3,497	Teeswater 854	Thamesford 546	Thamesville 950	Thedford 592
\$	\$	\$	\$	\$	\$	\$
5,582.07	13,844.33	32,077.04	8,427.05	8,981.87	7,718.60	6,531.30
3,756.09	7,193.36	11,770.33	4,825.15	4,041.65	7,039.00	5,261.48
2,246.54	9,711.26	9,402.03	5,858.20	2,965.75	6,255.12	2,582.65
155.94	417.84	660.30	382.06		205.90	
1,196.00	1,371.00	1,760.20	1,284.00	686.00	1,420.25	1,275.00
6.79	421.11	952.52	431.21	72.14	267.55	290.09
12,943.43	32,958.90	56,622.42	21,207.67	16,747.41	22,906.42	15,940.52
7,202.16	26,341.10	28,157.57	11,611.87	13,097.94	15,150.07	8,357.86
283.42	837.94	3,015.08	773.42	327.37	1,636.66	446.31
35.50	45.07	187.89	32.67	20.73	141.81	183.87
	78.85	744.05	296.74	48.89	537.92	10.00
	840.12	998.57		293.85		
143.17	309.00	340.67	201.35	124.49	253.22	299.94
	106.57	94.91				
457.02	1,458.46	1,760.00	944.44	449.55	903.54	906.17
104.67	769.90	3,070.62	541.06	136.10	358.13	353.90
7.79	24.36	205.74		6.50	74.46	33.82
		625.61			654.31	
	5.14				1.50	
747.00	981.00	3,265.00	1,477.00	443.00	1,475.00	844.00
8,980.73	31,797.51	42,465.71	15,878.55	14,948.42	21,186.62	11,435.87
3,962.70	1,161.39	14,156.71	5,329.12	1,798.99	1,719.80	4,504.65
174	341	967	265	183	306	206
50	105	93	66	47	94	68
7	10	8	11	5	13	5
231	456	1,068	342	235	413	279

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Thornbury	Thorndale	Thornton	Thorold
Population.....	1,003	299	181	6,465
EARNINGS	\$	\$	\$	\$
Domestic service.....	11,358.05	4,547.70	2,132.96	44,686.37
Commercial light service.....	5,284.66	1,540.71	784.78	18,084.78
Commercial power service.....	4,200.00	2,838.12	276.25	84,148.71
Municipal power.....	449.98			4,742.56
Street lighting.....	1,967.10	408.00	26.00	5,029.34
Merchandise.....	.05			
Miscellaneous.....	9.29	17.07		156.23
Total earnings.....	23,269.13	9,351.60	3,219.99	156,847.99
EXPENSES				
Power purchased.....	9,966.08	5,378.72	2,637.83	114,100.14
Substation operation.....	5,812.46			5,616.08
Substation maintenance.....				
Distribution system, operation and maintenance.....	1,238.00	493.20	227.42	5,838.83
Line transformer maintenance.....	115.24			383.31
Meter maintenance.....	402.36	3.21	72.67	3,194.47
Consumers' premises expenses.....		3.60		107.67
Street lighting, operation and maintenance.....	428.95	145.50	80.44	2,640.17
Promotion of business.....				
Billing and collecting.....	981.33	284.54	119.79	3,883.48
General office, salaries and expenses.....	589.48	48.00	25.00	3,575.01
Undistributed expenses.....	275.96		4.80	2,612.34
Truck operation and maintenance.....				1,253.56
Interest.....	380.71			310.52
Sinking fund and principal payments on debentures.....	276.20			
Depreciation.....	1,107.00	472.00	344.00	6,908.00
Other reserves.....				
Total operating costs and fixed charges.....	21,573.77	6,828.77	3,511.95	150,423.58
Net surplus.....	1,695.36	2,522.83		6,424.41
Net loss.....			291.96	
NUMBER OF CUSTOMERS				
Domestic service.....	340	94	75	1,668
Commercial light service.....	82	24	13	191
Power service.....	15	3	1	36
Total.....	437	121	89	1,895

Utilities for Year Ended December 31, 1951

Tilbury 2,848	Tillsonburg 5,202	Toronto 653,499	Toronto Twp. 23,303	Tottenham 577	Trafalgar Twp. V.A.
\$	\$	\$	\$	\$	\$
20,037.46	46,999.60	6,747,774.01	317,114.92	6,963.92	80,725.80
15,071.46	43,511.44	5,112,071.74	64,498.60	3,036.63	9,370.73
28,989.21	36,939.13	7,090,908.65	112,232.46	1,628.19	9,651.65
258.72	2,268.01	2,025,769.03	1,253.95	472.23	
5,423.72	6,937.68	589,527.98	11,513.86	1,241.73	145.00
914.67	2,982.14	562,789.95	1,362.58	4.62	250.00
70,695.24	139,638.00	22,128,841.36	507,976.37	13,347.32	100,143.18
45,129.82	90,721.08	*12,490,682.36	291,683.30	9,881.36	52,349.85
	1,859.15	473,054.00			
		539,356.84	378.74		
3,009.12	10,198.82	844,751.93	36,778.94	844.83	8,949.88
99.28	1,393.95	121,044.25	5,837.28	12.84	1,526.66
354.43	1,767.48	208,204.68	2,366.02	193.00	1,475.52
	208.30	563,804.57	1,831.11		318.48
832.93	1,350.13	215,889.90	4,738.64	130.11	50.82
7.25	453.12	245,090.32			
1,727.05	4,352.44	751,895.88	26,897.06	577.10	4,559.90
1,660.40	7,224.14	712,244.22	19,161.47	202.25	7,182.73
386.16	1,887.04	1,304,121.39		56.57	
1,049.31	2,638.47			189.73	
	931.74	113,824.08	5,596.26	267.26	2,327.73
	497.10	126,000.00	4,714.41	570.41	2,998.46
3,476.00	7,835.00	1,751,198.47	28,769.00	713.00	4,740.00
			1,234.00		176.09
57,731.75	133,317.96	20,461,162.89	429,986.23	13,638.46	86,656.12
12,963.49	6,320.04	†1,667,678.47	77,990.14		13,487.06
				291.14	
746	1,610	157,324	6,223	192	1,248
161	345	27,055	459	51	80
22	50	6,047	102	9	16
929	2,005	190,426	6,784	252	1,344

* Includes 1951 power adjustment.

† \$1,650,000.00 allocated to reserve for frequency standardization.

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Trenton	Tweed	Uxbridge	Victoria Harbour
Population.....	9,993	1,600	2,028	958
EARNINGS	\$	\$	\$	\$
Domestic service.....	98,744.51	15,992.13	22,029.60	7,630.93
Commercial light service.....	38,381.01	10,266.86	9,409.08	2,297.28
Commercial power service.....	108,209.37	11,548.62	7,177.50	
Municipal power.....	8,358.91	479.46	739.95	267.04
Street lighting.....	12,323.95	2,365.99	1,985.98	794.00
Merchandise.....		98.25	39.59	
Miscellaneous.....	3,386.29	382.13	315.34	47.92
Total earnings.....	269,404.04	41,133.44	41,697.04	11,037.17
EXPENSES				
Power purchased.....	185,015.44	21,856.72	25,313.91	6,014.76
Substation operation.....	319.62			
Substation maintenance.....				
Distribution system, operation and maintenance.....	4,644.23	661.90	1,528.77	642.26
Line transformer maintenance.....	548.35	74.76	80.01	78.58
Meter maintenance.....	4,528.59	719.84	647.58	128.30
Consumers' premises expenses.....	1,951.71		406.47	
Street lighting, operation and main- tenance.....	1,632.30	458.99	417.17	157.50
Promotion of business.....				
Billing and collecting.....	7,727.73	2,078.82	1,572.29	879.88
General office, salaries and expenses..	7,379.18	637.26	1,164.19	585.54
Undistributed expenses.....	1,696.50	285.04	5.37	19.44
Truck operation and maintenance.....	2,179.60			
Interest.....				
Sinking fund and principal payments on debentures.....				
Depreciation.....	12,658.00	1,290.00	1,518.00	500.00
Other reserves.....				
Total operating costs and fixed charges.....	230,281.25	28,063.33	32,653.76	9,006.26
Net surplus.....	39,122.79	13,070.11	9,043.28	2,030.91
Net loss.....				
NUMBER OF CUSTOMERS				
Domestic service.....	2,940	417	563	336
Commercial light service.....	321	104	124	35
Power service.....	65	25	17	1
Total.....	3,326	546	704	372

Utilities for Year Ended December 31, 1951

Walkerton 3,313	Wallaceburg 7,352	Wardsville 365	Warkworth 522	Waterdown 1,361	Waterford 1,665
\$	\$	\$	\$	\$	\$
36,974.26	55,179.14	3,782.06	5,429.83	18,029.52	15,068.52
25,388.32	38,929.77	3,013.77	2,465.49	4,936.29	6,566.36
18,524.95	211,344.12	40.64	693.87	2,129.51	5,690.35
787.81	7,443.67	.....	.....	214.32	309.62
5,640.66	6,508.41	720.00	750.98	1,446.75	1,845.00
.....	8,774.89	.....	.....	.....	.....
1,805.57	3,682.02	103.61	124.20	89.83	359.57
89,121.57	331,862.02	7,660.08	9,464.37	26,846.22	29,839.42
50,127.50	255,377.60	5,057.03	6,118.35	18,245.28	20,412.22
.....	730.20	.....	.....	.....	.....
3,751.44	10,674.26	87.04	133.10	1,623.05	1,614.65
338.21	1,138.30	3.34	2.94	167.36	211.38
1,202.50	2,754.70	154.46	17.15	422.00	377.23
89.62	.....	16.75	.....	.....	.....
376.62	1,346.96	86.20	53.67	205.29	632.67
.....	294.12	.....	.....	.....	.....
3,407.86	4,198.71	205.29	290.47	1,003.48	893.69
3,432.65	7,471.64	149.96	194.41	200.19	448.08
787.19	2,634.13	.....	7.66	121.75	120.92
1,583.38	3,916.18	.....	.....	381.40	826.99
240.72	.....	.....	240.60	7.57	.....
4,814.56	.....	.....	632.99	.....	.....
3,191.00	14,098.00	480.00	404.00	1,560.00	1,731.00
.....
73,343.25	304,634.80	6,240.07	8,095.34	23,937.37	27,268.83
15,778.32	27,227.22	1,420.01	1,369.03	2,908.85	2,570.59
.....
892	2,084	96	170	384	533
182	374	21	48	55	87
19	72	1	2	10	12
1,093	2,530	118	220	449	632

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Waterloo	Watford	Waubau- shene V.A.	Welland
Population.....	11,947	1,149		15,972
EARNINGS	\$	\$	\$	\$
Domestic service.....	138,646.67	15,653.81	6,131.71	92,076.24
Commercial light service.....	56,047.03	9,563.48	2,380.60	79,283.81
Commercial power service.....	126,922.73	9,504.56	715.61	265,888.79
Municipal power.....	5,406.13	493.81	167.56	4,579.35
Street lighting.....	11,482.53	1,909.08	638.00	22,817.05
Merchandise.....	1.47			
Miscellaneous.....	701.95	702.16	2.87	11,355.81
Total earnings.....	339,208.51	37,826.90	10,036.35	476,001.05
EXPENSES				
Power purchased.....	241,428.29	27,239.85	6,461.14	323,811.42
Substation operation.....	5,388.21			15,038.98
Substation maintenance.....	2,218.10			2,086.16
Distribution system, operation and maintenance.....	11,681.05	1,895.53	629.07	12,545.03
Line transformer maintenance.....	1,705.48	17.82	57.88	2,583.48
Meter maintenance.....	3,926.83	245.97	236.62	11,445.75
Consumers' premises expenses.....		7.70		5,864.50
Street lighting, operation and main- tenance.....	3,226.10	189.55	140.90	1,630.29
Promotion of business.....				40.00
Billing and collecting.....	9,231.55	1,429.79	951.17	12,852.99
General office, salaries and expenses.....	4,184.30	1,034.09	200.20	19,538.06
Undistributed expenses.....	3,543.35	386.04	31.44	11,586.46
Truck operation and maintenance.....		271.95		3,860.66
Interest.....	328.48			
Sinking fund and principal payments on debentures.....				
Depreciation.....	11,472.00	1,571.00	608.00	26,791.00
Other reserves.....				
Total operating costs and fixed charges.....	298,333.74	34,289.29	9,316.42	449,674.78
Net surplus.....	40,874.77	3,537.61	719.93	26,326.27
Net loss.....				
NUMBER OF CUSTOMERS				
Domestic service.....	3,183	357	310	3,764
Commercial light service.....	328	91	33	588
Power service.....	100	10	3	105
Total.....	3,611	458	346	4,457

Utilities for Year Ended December 31, 1951

Wellesley 560	Wellington 993	West Lorne 1,036	Weston 8,088	Westport 716	Wheatley 1,006	Whitby 7,268
\$	\$	\$	\$	\$	\$	\$
6,192.71	10,749.45	8,811.99	113,576.47	7,270.05	9,113.60	72,657.03
3,563.79	4,681.93	6,618.23	44,285.75	6,442.04	9,936.48	29,589.65
1,775.48	5,624.92	17,716.91	116,616.93		7,169.67	27,633.26
			3,458.40		1,202.72	4,290.04
864.00	1,370.00	1,396.02	12,556.62	1,130.70	2,219.75	6,615.64
						1,116.11
189.22	293.78	2,422.64		117.73	10.79	454.29
12,585.20	22,720.08	36,965.79	290,494.17	14,960.52	29,653.01	142,356.02
8,094.47	13,611.58	24,924.32	178,096.87	8,967.05	16,873.52	73,880.50
			1,662.55			1,247.41
208.55	1,236.93	787.00	20,343.22	631.60	2,016.55	6,873.04
	29.20	6.90	3,317.06	495.35	173.00	1,040.80
11.73	243.77	132.17	622.71	64.65	74.60	1,051.91
296.89	34.43		1,426.10		188.73	2,503.19
129.15	77.70	383.45	2,022.40	114.74	377.80	2,137.64
			182.19			91.35
506.91	691.17	810.87	5,216.67	880.65	1,123.55	5,833.40
355.05	899.09	1,002.87	11,138.21	799.26	1,009.67	9,078.73
18.56	213.76			69.49	76.10	2,934.42
	568.14					670.04
			4,601.09	65.94	360.00	35.25
			500.00	1,189.75	449.47	285.13
675.00	1,069.00	1,778.00	12,750.00	509.00	1,846.00	8,522.00
			395.00			
10,296.31	18,674.77	29,825.58	242,274.07	13,787.48	24,568.99	116,184.81
2,288.89	4,045.31	7,140.21	48,220.10	1,173.04	5,084.02	26,171.21
162	397	292	2,204	197	297	1,418
55	75	80	269	64	89	211
6	12	15	55		12	35
223	484	387	2,528	261	398	1,664

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Warton	Williams- burg	Winchester	Windermere
Population.....	2,042	264	1,175	140
EARNINGS	\$	\$	\$	\$
Domestic service.....	16,098.82	2,588.29	12,111.15	3,489.92
Commercial light service.....	14,290.91	2,648.83	8,854.51	2,284.54
Commercial power service.....	11,366.71	720.81	7,656.21	1,190.46
Municipal power.....	2,229.67			
Street lighting.....	2,503.87	665.00	1,456.00	325.00
Merchandise.....				
Miscellaneous.....	620.97	580.21	322.03	48.00
Total earnings.....	47,110.95	7,203.14	30,399.90	7,337.92
EXPENSES				
Power purchased.....	23,734.24	5,409.68	23,086.71	3,902.99
Substation operation.....				
Substation maintenance.....				
Distribution system, operation and maintenance.....	2,736.23	316.69	492.48	367.60
Line transformer maintenance.....	39.50	26.90		48.84
Meter maintenance.....	325.20	81.72	494.84	38.04
Consumers' premises expenses.....	89.15	47.30	46.84	
Street lighting, operation and main- tenance.....	387.23	123.01	176.04	41.99
Promotion of business.....				
Billing and collecting.....	1,412.36	474.56	1,319.67	286.58
General office salaries and expenses.....	1,437.17	188.55	467.58	86.53
Undistributed expenses.....	371.54			1.50
Truck operation and maintenance.....	724.43			
Interest.....	279.34			27.27
Sinking fund and principal payments on debentures.....	2,722.06			991.47
Depreciation.....	1,652.00	402.00	1,296.00	375.00
Other reserves.....				
Total operating costs and fixed charges.....	35,910.45	7,070.41	27,380.16	6,167.81
Net surplus.....	11,200.50	132.73	3,019.74	1,170.11
Net loss.....				
NUMBER OF CUSTOMERS				
Domestic service.....	557	96	355	27
Commercial light service.....	127	37	94	14
Power service.....	23	2	5	2
Total.....	707	135	454	103

Utilities for Year Ended December 31, 1951

Windsor	Wingham	Woodbridge	Woodstock	Woodville	Wyoming
123,849	2,611	1,673	15,466	382	710
\$	\$	\$	\$	\$	\$
1,168,441.23	35,394.52	20,302.57	192,574.60	4,271.92	5,275.91
723,658.23	20,878.61	10,216.58	103,145.77	1,994.54	3,003.29
1,207,440.82	25,416.61	29,686.57	176,839.35	896.75	3,398.67
34,383.57	2,283.39	2,556.87	7,389.88		
141,830.05	3,849.58	1,377.00	12,498.97	745.99	688.50
32,428.14					
34,878.20	516.58	266.78	6,119.23	180.72	67.23
3,343,060.24	88,339.29	64,406.37	498,567.80	8,089.92	12,433.60
*2,130,896.27	48,228.13	45,282.38	314,788.29	4,433.25	7,063.43
98,620.46	3,336.23		14,832.45		
35,137.78			22.74		
97,834.41	4,230.72	1,102.46	17,085.97	627.84	511.96
18,577.86	405.39	92.09	492.00	128.75	
27,754.97	725.07	15.20	9,278.67	210.13	16.08
122,750.02	4,194.83	82.75	14,897.19		
70,065.57	658.97	227.44	3,052.87	133.92	166.50
8,771.07	28.18		890.35		
121,059.43	2,668.87	1,512.94	11,122.16	543.65	206.00
98,573.58	3,525.17	797.59	13,880.11	181.00	246.49
24,501.69	574.02		4,570.81	5.00	5.00
9,892.18	1,767.51		2,732.13		
18,389.17	186.95		4,883.25		
	2,876.15		13,956.88		
217,169.00	5,407.00	1,825.00	14,649.00	202.00	848.00
		150.00			
3,099,993.46	78,813.19	51,087.85	441,134.87	6,465.54	9,063.46
243,066.78	9,526.10	13,318.52	57,432.93	1,624.38	3,370.14
29,947	763	434	4,474	133	211
4,010	165	70	612	33	51
635	27	15	132	2	5
34,592	955	519	5,218	168	267

* Includes 1951 Power Adjustment.

Operating Reports of Municipal Electrical

SOUTHERN ONTARIO SYSTEM—Concluded

THUNDER

Municipality.....	York Twp.	Zurich	TOTAL SOUTHERN ONTARIO SYSTEM	Fort William 34,926
Population.....	96,770	534		
EARNINGS	\$	\$	\$	\$
Domestic service.....	988,849.59	7,548.61	30,199,742.30	468,837.43
Commercial light service.....	240,104.41	5,814.61	16,148,646.58	202,551.93
Commercial power service.....	317,662.93	324.20	25,114,074.69	428,617.97
Municipal power.....	8,529.28	268.46	2,940,260.25	17,220.16
Street lighting.....	55,984.43	926.50	2,619,620.67	32,449.42
Merchandise.....			99,667.86	
Miscellaneous.....	4,496.25	167.29	1,219,150.91	16,940.99
Total earnings.....	1,615,626.89	15,049.67	78,341,163.26	1,166,617.90
EXPENSES				
Power purchased.....	943,951.44	10,349.77	48,254,793.90	751,524.03
Substation operation.....	9,195.31		1,547,854.61	32,644.36
Substation maintenance.....	4,402.68		728,452.74	4,064.21
Distribution system, operation and maintenance.....	37,388.55	659.42	2,931,983.51	16,646.96
Line transformer maintenance.....	17,429.71	165.21	411,794.72	1,465.14
Meter maintenance.....	20,157.82	28.19	783,499.55	16,550.63
Consumers' premises expenses.....	28,443.59		1,391,424.05	15,701.14
Street lighting, operation and main- tenance.....	19,206.64	137.24	708,833.30	11,232.49
Promotion of business.....			317,172.07	663.25
Billing and collecting.....	107,687.18	566.17	2,601,416.38	38,915.61
General office, salaries and expenses.....	72,988.00	627.99	2,383,984.71	24,904.38
Undistributed expenses.....			1,682,728.71	550.96
Truck operation and maintenance.....			220,818.16	1,046.58
Interest.....			635,118.76	28,724.36
Sinking fund and principal payments on debentures.....			806,373.45	21,254.84
Depreciation.....	100,999.00	687.00	4,527,768.61	46,058.00
Other reserves.....	3,797.86		82,725.06	
Total operating costs and fixed charges.....	1,365,647.78	13,220.99	70,016,742.29	1,011,946.94
Net surplus.....	249,979.11	1,828.68	8,324,420.97	154,670.96
Net loss.....				
NUMBER OF CUSTOMERS				
Domestic service.....	26,737	195	740,241	9,698
Commercial light service.....	1,826	51	101,972	1,414
Power service.....	315	2	18,289	206
Total.....	28,878	248	860,502	11,318

Utilities for Year Ended December 31, 1951

BAY SYSTEM

Nipigon V.A.	Port Arthur 32,082	Red Rock 1,425	Schreiber Twp. V.A.	Terrace Bay 1,246	TOTAL THUNDER BAY SYSTEM
\$	\$	\$	\$	\$	\$
16,064.77	378,212.62	10,922.08	27,258.97	23,994.27	925,290.14
14,778.23	200,628.37	8,173.31	12,399.11	11,120.32	449,651.27
1,322.09	450,295.61	101.02	5,739.12	7,472.39	893,548.20
468.93	29,141.20	552.33			47,382.62
1,502.00	36,852.24	918.00	1,770.00	1,863.90	75,355.56
538.20	7,589.89	.60			25,069.68
34,674.22	1,102,719.93	20,667.34	47,167.20	44,450.88	2,416,297.47
19,785.63	817,691.91	11,215.66	10,494.56	11,428.71	1,622,140.50
	44,080.46				76,724.82
	21,852.24				25,916.45
4,256.20	36,578.61	783.67	3,202.64	455.31	61,923.39
91.65	2,407.90		.70	70.36	4,035.75
594.17	13,585.47	176.45	251.52		31,158.24
		.80		3.01	15,704.95
824.54	7,272.61	173.93	482.42	479.46	20,465.45
	2,053.63				2,716.88
1,258.32	35,013.92	1,029.95	2,187.37	1,538.99	79,944.16
1,644.75	16,880.64	557.04	1,251.14	541.29	45,779.24
320.14			137.95	29.64	1,038.69
740.08	3,092.31		626.12		5,505.09
		894.33	1,858.85	2,645.02	34,122.56
		1,170.00	4,917.24	3,900.00	31,242.08
1,419.00	67,555.94	874.00	1,319.00	1,961.00	119,186.94
	4,500.00				4,500.00
30,934.48	1,072,565.64	16,875.83	26,729.51	23,052.79	2,182,105.19
3,739.74	30,154.29	3,791.51	20,437.69	21,398.09	234,192.28
414	8,684	193	447	286	19,722
99	1,132	21	48	26	2,740
4	149	2	2	1	364
517	9,965	216	497	313	22,826

Operating Reports of Municipal Electrical

NORTHERN ONTARIO PROPERTIES

Municipality.....	Cache Bay	Capreol	Larder Lake Twp. V.A.	Latchford	McGarry Imp. Dist. 2,128
Population.....	864	1,992		504	
EARNINGS	\$	\$	\$	\$	\$
Domestic service.....	5,213.62	26,159.04	21,610.89	3,051.38	21,534.56
Commercial light service.....	2,690.47	8,183.82	8,431.41	2,476.14	9,028.61
Commercial power service.....	843.99	8,875.30	239.35	169.40	
Municipal power.....		724.92	1,119.96		788.42
Street lighting.....	739.00	2,750.82	1,717.24	555.00	1,075.35
Merchandise.....		43.55			
Miscellaneous.....		23.75			
Total earnings.....	9,487.08	46,761.20	33,118.85	6,251.92	32,426.94
EXPENSES					
Power purchased.....	3,335.57	33,612.81	19,441.20	2,255.28	23,075.17
Substation operation.....		149.31			
Substation maintenance.....					
Distribution system, operation and maintenance.....	117.03	2,919.37	1,992.06	200.31	473.11
Line transformer maintenance.....	27.74	197.08	393.83	27.69	10.00
Meter maintenance.....	54.49	932.24	121.47	40.00	114.63
Consumers' premises expenses.....		12.96			
Street lighting, operation and main- tenance.....	89.75	586.05	545.83	130.77	295.92
Promotion of business.....					
Billing and collecting.....	755.28	1,827.95	1,514.69	379.33	1,778.27
General office, salaries and expenses	318.70	1,812.29	2,245.72	293.49	1,105.55
Undistributed expenses.....	5.00	231.24	243.83		
Truck operation and maintenance.....		380.97			
Interest.....	1,306.67	16.18	672.32	810.95	594.23
Sinking fund and principal payments on debentures.....	2,000.00		900.00	700.00	500.00
Depreciation.....	854.00	1,624.00	1,341.00	391.00	1,041.00
Other reserves.....					
Total operating costs and fixed charges.....	8,864.23	44,302.45	29,411.95	5,228.82	28,987.88
Net surplus.....	622.85	2,458.75	3,706.90	1,023.10	3,439.06
Net loss.....					
NUMBER OF CUSTOMERS					
Domestic service.....	176	549	422	108	309
Commercial light service.....	24	79	88	25	60
Power service.....	1	2	5	1	1
Total.....	201	630	515	134	370

Utilities for Year Ended December 31, 1951

North Bay	Sioux Lookout	Sturgeon Falls	Sudbury	TOTAL NORTHERN ONTARIO PROPERTIES	TOTAL ALL SYSTEMS
18,740	2,381	4,953	50,222		
\$	\$	\$	\$	\$	\$
200,249.05	35,797.89	30,929.27	507,739.62	852,285.32	31,977,317.76
107,679.61	21,161.67	27,046.35	248,600.01	435,298.09	17,033,595.94
77,177.73	4,782.31	1,020.89	72,211.69	165,320.66	26,172,943.55
5,570.56	2,029.17	1,302.00	11,878.45	23,413.48	3,011,056.35
16,076.00	3,275.00	2,017.50	46,117.89	74,323.80	2,769,300.03
384.77				428.32	100,096.18
	534.63		2,592.14	3,150.52	1,247,371.11
407,137.72	67,580.67	62,316.01	889,139.80	1,554,220.19	82,311,680.92
255,838.56	37,651.17	30,742.49	571,436.76	977,389.01	50,854,323.41
3,463.29			19,928.71	23,541.31	1,648,120.74
			4,023.33	4,023.33	758,392.52
21,082.55	2,961.36	7,875.54	39,006.21	76,627.54	3,070,534.44
1,880.75	355.69	711.86	3,721.35	7,325.99	423,156.46
7,318.03	454.98	1,943.66	24,314.34	35,293.84	849,951.63
10,853.63		364.50	12,498.96	23,730.05	1,430,859.05
4,704.17	1,404.39	1,812.21	16,634.23	26,203.32	755,502.07
28,188.80	5,020.78	2,137.12	53,413.40	95,015.62	319,888.95
20,890.37	1,922.36	3,774.50	25,637.75	58,000.73	2,776,376.16
	928.50	9,145.40	5,120.50	15,674.47	2,487,764.68
	810.98	245.71	12,615.49	14,053.15	1,699,441.87
1,174.66		3.79	1,809.92	6,388.72	240,376.40
			7,585.29	11,685.29	675,630.04
15,021.00	1,471.00	2,473.00	46,325.00	70,541.00	849,300.82
					4,717,496.55
					87,225.06
370,415.81	52,981.21	61,229.78	844,071.24	1,445,493.37	73,644,340.85
36,721.91	14,599.46	1,086.23	45,068.56	108,726.82	8,667,340.07
4,464	674	1,052	10,800	18,554	778,517
808	97	171	1,352	2,704	107,416
103	13	14	154	294	18,947
5,375	784	1,237	12,306	21,552	904,880

STATEMENT "C"

(pages 234 to 253)

Cost of Power to Municipalities and Rates to Customers in Municipalities, Groups 1, 2, and 4 Served by The Hydro-Electric Power Commission of Ontario for the year 1951

STATEMENT "D"

(pages 254 to 271)

Customers, Revenue and Consumption for Domestic, Commercial light, and Power service in Municipalities Group 1, during the year 1951

STATEMENT "C"

Cost of Power to Municipalities and Rates to Customers in Municipalities, Groups 1, 2, and 4, Served by The Hydro-Electric Power Commission of Ontario for the year 1951

Statement "C" is the schedule of rates for electrical service—domestic, commercial light, and power—in the 355 municipalities (groups 1, 2, and 4) supplied under cost or fixed-rate contracts, or whose customers are supplied directly by the Commission. Municipalities served through the facilities of the Rural Power District are not included.

Cost of Power to Municipalities

The wholesale cost per kilowatt of the power supplied by the Commission to each municipality is a basic factor in determining retail rates to customers in the municipality. This cost figure given in column 1 represents the average cost per kilowatt supplied by the Commission to each municipality. The components of this cost are given in detail in the "Cost of Power" tables relating to the systems, which are given in Appendix II. A brief description of the method of arriving at this cost of power is given in the introduction to Section II of the Report.

Rates to Customers

The Power Commission Act stipulates that "The rates chargeable by any municipal corporation generating or receiving and distributing electrical power or energy shall be subject (at all times) to the approval and control of the Commission." (R.S.O. 1950, Ch. 281, Sec. 104).

In accordance with the Act and the Commission's fundamental principle of providing service at cost, the Commission exercises a continuous supervision over rates charged to customers and requires that accurate cost records be kept in each municipality. On the basis of this cost, rate schedules are designed for each of the three main classes of electrical service—residential or domestic, commercial light, and power—and the schedules in use in 1951 are given in this statement.

Domestic Service: Domestic rates apply to electrical service for all household purposes in residences. Lighting, cooking, and the operation of all domestic electrical appliances are included.

Commercial Light Service: Electric energy is billed at commercial light rates when it is used in stores, offices, churches, schools, public halls and institutions, hotels, public boarding houses, and in all other premises for commercial purposes. Sign and display lighting is included.

Water-Heater Service: Customers using continuous electric water-heaters purchase energy at a low flat rate, a fixed charge per month based on the capacity of the heating element and dependent on the cost of power to the municipal utility. The electric energy consumed by these heaters is not metered. Current for booster heaters used in water-heating equipment to supplement the capacity of the continuous heater is measured and charged for at regular rates.

Power Service: The rate schedules for power service in statement "C" cover retail supply to all power customers of the municipal utilities. Certain large power customers served directly by the Commission are excepted from this schedule.

Power service rates, as given in the tables, are for 24-hour unrestricted power at secondary distribution voltage. Rates for service at primary distribution voltage are usually 5 per cent lower than those given. In municipalities where load conditions and other circumstances permit, restricted power may be available at lower rates, and discounts in addition to those listed are applicable.

The service charge is based on the connected load or on the maximum demand where a demand meter is installed. The prompt payment discount of 10 per cent on the total monthly bill is given for settlement within ten days.

Early in 1949 the Commission, in order to simplify billing procedure, began to bill the power demand of industrial power customers by using the kilowatt rather than horsepower.

The annual basis rate continues to be shown per horsepower of demand. The figure given shows approximately the net annual amount payable for a demand of one horsepower. It represents the cost of power assuming that the demand is used for an average of 130 hours monthly including 30 hours at the third energy rate. This net amount payable is the basis of the energy rates given. At the same time it serves as an indication of the relative cost of power service in the various municipalities listed.

The service charge is now shown per kilowatt per month. Where special local discounts were in force, the equivalents of these discounts have been incorporated in the service charges and energy rates.

Cost of Power to Municipalities and Rates to Served by The Hydro-Electric for the

Prompt Payment

Municipality	Annual cost to the Commission on the works to serve electric energy to municipality on a kilowatt basis	Domestic service				
		Service charge per month**	First rate		All additional per kwh	Minimum gross monthly bill
			Number of kwh per month	Per kwh per month		
C—City						
T—Municipality (Pop. 2,000 or more)						
	\$	cents		cents	cents	\$
Acton.....T	36.31		60	2.6	1.1	0.83
Agincourt.....	34.80		60	3.0	1.0	0.83
Ailsa Craig.....	43.25		60	2.8	1.0	0.83
Alexandria.....T	37.64		60	3.0	1.0	1.11
Alliston.....T	38.27		55	3.5	1.0	1.11
Almonte.....T	30.85		60	2.5	1.0	0.83
Alvinston.....	45.90		60	3.5	1.0	0.83
Amherstburg.....T	42.74		60	2.7	1.0	1.11
Ancaster Twp.....	34.77		60	4.2	1.2	1.11
Apple Hill.....	37.27		60	4.0	1.0	1.39
Arkona.....	40.97		60	4.0	1.0	1.11
Arnprior.....T	36.43		60	2.9	0.9	0.83
Arthur.....	37.06		45	4.5	1.2	1.11
Athens.....	35.42	33-66	50	4.5	1.5	1.11
Atikokan Imp. Dist.....			60	4.4	*2.1 1.1	†1.67 ‡2.25
Aurora.....T	34.33		60	2.6	1.0	0.83
Aylmer.....T	38.97		60	2.2	0.8	0.83
Ayr.....	36.34		60	3.0	1.1	1.11
Baden.....	34.67		60	3.0	1.1	0.83
Bala.....		33-66	50	3.7	1.2	1.66
Bancroft.....	52.18		60	6.0	2.0	1.67
Barrie.....T	32.22		60	2.4	0.8	0.83
Barry's Bay.....	42.27		60	6.0	2.0	2.78
Bath.....	34.72		60	4.8	1.5	2.22
Beachville.....	37.90		60	2.8	0.9	0.83
Beamsville.....	35.44		60	2.2	0.8	0.83
Beardmore Imp. Dist.....			60	4.4	*2.1 1.1	†1.67 ‡2.25
Beaverton.....	39.15		60	2.8	1.0	1.11
Beeton.....	43.23		45	4.0	1.2	1.39
Belle River.....	42.94		60	3.5	1.0	1.39
Belleville.....C	34.28		60	1.8	0.8	0.83
Blenheim.....T	39.52		60	2.5	0.9	1.11
Bloomfield.....	38.71		60	2.5	0.9	0.83
Blyth.....	38.81		60	2.9	1.0	1.11
Bobcaygeon.....	35.19		60	5.0	1.25	2.22

**Where domestic service charge has not been abolished the charge is 33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when 2,000 watts or more. Where a service charge of 56 cents is used it applies to either 2-wire or 3-wire service.

Customers in Municipalities, Groups 1, 2, and 4
Power Commission of Ontario
Year 1951

Discount 10%

Commercial light service				Power service				
Service charge per 100 watts min 1,000 watts	First 100 hrs per month per kwh	All additional per kwh	Minimum gross monthly bill	Basis of rate 130 hours' monthly use of demand per hp	Service charge per kw per month	First 50 hrs per month per kwh	Second 50 hrs per month per kwh	All additional per kwh
cents	cents	cents	\$	\$	\$	cents	cents	cents
5.0	2.0	0.7	0.83	20.00	1.20	1.4	0.9	0.30
5.0	2.6	0.6	0.83	20.00	1.20	1.4	0.9	0.30
5.0	2.3	0.7	0.83	24.00	1.20	2.1	1.4	0.30
5.0	2.6	0.8	1.11	35.00	1.35	3.5	2.3	0.33
5.0	3.2	0.9	1.11	27.00	1.35	2.3	1.5	0.33
5.0	2.3	1.0	0.83	20.00	1.20	1.4	0.9	0.30
5.0	3.0	0.9	0.83	30.00	1.35	2.8	1.8	0.33
5.0	2.2	0.6	1.11	22.00	1.20	1.7	1.2	0.30
5.0	3.6	1.0	1.11	31.00	1.35	2.9	1.9	0.33
5.0	3.5	1.0	1.39	30.00	1.35	2.8	1.8	0.33
5.0	3.5	0.8	1.11	39.00	1.35	4.1	2.7	0.33
5.0	2.6	0.8	0.83	19.00	1.00	1.5	1.1	0.25
5.0	4.0	1.0	1.11	35.00	1.35	3.5	2.3	0.33
5.0	4.5	1.0	1.11	39.00	1.35	4.1	2.7	0.33
5.0	4.4	1.1	†1.67					
			‡2.25	37.00	1.35	3.8	2.5	0.33
5.0	1.6	0.4	1.11	20.00	1.20	1.4	0.9	0.30
5.0	1.8	0.4	0.83	19.00	1.00	1.5	1.1	0.25
5.0	2.5	0.9	1.11	24.00	1.20	2.1	1.4	0.30
5.0	2.5	0.8	0.83	22.00	1.20	1.7	1.2	0.30
5.0	3.7	0.8	1.66	20.00	1.20	1.4	0.9	0.30
5.0	5.0	2.0	1.67	35.00	1.35	3.5	2.3	0.33
5.0	2.0	0.6	0.83	18.00	1.00	1.4	0.9	0.25
5.0	5.0	2.0	2.78	35.00	1.35	3.5	2.3	0.33
5.0	5.0	1.0	2.22	35.00	1.35	3.5	2.3	0.33
5.0	2.4	0.5	0.83	19.00	1.00	1.5	1.1	0.25
5.0	1.8	0.5	0.83	18.00	1.00	1.4	0.9	0.25
			†1.67					
			‡2.25	37.00	1.35	3.8	2.5	0.33
5.0	4.4	1.1	1.11	24.00	1.20	2.1	1.4	0.30
5.0	2.0	0.8	1.39	30.00	1.35	2.8	1.8	0.33
5.0	3.5	1.0	1.39	32.00	1.35	3.1	2.0	0.33
5.0	2.9	0.7	1.39					
5.0	1.6	0.6	0.83	17.00	1.00	1.3	0.8	0.25
5.0	2.1	0.6	1.11	25.00	1.35	2.0	1.3	0.33
5.0	2.3	0.7	0.83	30.00	1.35	2.8	1.8	0.33
5.0	2.4	0.8	1.11	30.00	1.35	2.8	1.8	0.33
5.0	5.0	1.0	2.22	35.00	1.35	3.5	2.3	0.33

*2-wire service next 80 kwh, 3-wire service next 180 kwh.

†2-wire service.

‡3-wire service.

Cost of Power to Municipalities and Rates to
Served by The Hydro-Electric
for the

Prompt Payment

Municipality	Annual cost to the Commission on the works to serve electric energy to municip- ality on a kilowatt basis	Domestic service				
		Service charge per month	First rate		All addition- al per kwh	Minimum gross monthly bill
			Number of kwh per month	Per kwh per month		
c—City T—Municipality (Pop. 2,000 or more)						
	\$	cents		cents	cents	\$
Bolton.....	37.77		60	2.9	1.0	0.83
Bothwell.....	49.71		60	2.5	0.8	0.83
Bowmanville..... T	34.23		60	3.0	1.0	0.83
Bradford.....	36.58		45	4.2	1.0	1.39
Braeside.....	34.24		50	4.0	1.3	0.83
Brampton..... T	34.04		60	2.3	1.0	0.83
Brantford..... C	33.20		60	2.0	1.0	0.83
Brantford Twp.....	32.51		60	3.4	1.3	1.11
Brechin.....	37.20		60	4.0	1.2	1.11
Bridgeport.....	33.92		60	3.0	0.9	0.83
Brigden.....	41.88		60	3.0	0.9	1.11
Brighton..... T	37.46		60	3.5	0.9	0.83
Brockville..... T	35.39		60	2.0	0.8	0.83
Brussels.....	39.96		60	3.2	1.0	1.11
Burford.....	35.10		60	2.8	1.0	0.83
Burgessville.....	36.24		60	4.0	1.0	1.11
Burks Falls.....	45.23		50	5.0	1.5	2.50
Burlington..... T	34.59				Special	
Burlington Beach or Hamilton Beach..... T			60	3.5	1.1	0.83
Cache Bay.....			60	6.0	2.0	1.67
Caledonia.....	35.82		60	2.3	1.0	1.11
Campbellville.....	37.71		60	3.0	1.3	1.11
Cannington.....	39.90		60	3.2	1.0	1.11
Capreol.....			50	3.6	1.0	1.39
Cardinal.....	36.24		55	2.8	1.1	1.11
Carleton Place..... T	34.50		55	2.8	1.1	1.11
Cayuga.....	37.62		60	3.5	1.0	1.39
Chatham..... C	35.44		60	3.2	1.0	0.83
Chatsworth.....	41.53		50	3.0	1.0	1.39
Chesley.....	36.72		60	2.7	1.0	1.11
Chesterville.....	35.24		55	2.3	0.9	0.83
Chippawa.....	33.38		60	2.2	1.0	0.83
Clifford.....	39.68		55	3.3	1.1	1.11
Clinton..... T	35.53		60	2.5	0.8	0.83
Cobalt.....					Special	
Cobden.....	27.97		40	2.8	1.0	1.11
Cobourg..... T	40.04		60	2.9	1.2	0.83
Colborne.....	38.41		60	3.8	1.0	0.83
Coldwater.....	42.78	33-66	55	2.5	1.0	1.11
Collingwood..... T	36.28		60	2.3	1.0	1.11

Customers in Municipalities, Groups 1, 2, and 4
Power Commission of Ontario
Year 1951—Continued

Discount 10%

Commercial light service				Power service				
Service charge per 100 watts min 1,000 watts	First 100 hrs per month per kwh	All additional per kwh	Minimum gross monthly bill	Basis of rate 130 hours' monthly use of demand per hp	Service charge per kw per month	First 50 hrs per month per kwh	Second 50 hrs per month per kwh	All additional per kwh
cents	cents	cents	\$	\$	\$	cents	cents	cents
5.0	2.5	0.8	0.83	22.00	1.20	1.7	1.2	0.30
5.0	1.9	0.4	0.83	24.00	1.20	2.1	1.4	0.30
5.0	2.4	0.8	0.83	21.00	1.20	1.6	1.0	0.30
5.0	3.7	1.0	1.39	25.00	1.35	2.0	1.3	0.33
5.0	4.0	1.0	0.83	25.00	1.35	2.0	1.3	0.33
5.0	1.9	0.6	0.83	18.00	1.00	1.4	0.9	0.25
z5.0	1.7	0.5	0.83	18.00	1.00	1.4	0.9	0.25
5.0	2.9	1.0	1.11	24.00	1.20	2.1	1.4	0.30
5.0	3.5	1.0	1.11	30.00	1.35	2.8	1.8	0.33
5.0	2.7	0.6	0.83	20.00	1.20	1.4	0.9	0.30
5.0	2.5	0.7	1.11	30.00	1.35	2.8	1.8	0.33
5.0	3.0	0.7	0.83	21.00	1.20	1.6	1.0	0.30
5.0	1.6	0.6	0.83	18.00	1.00	1.4	0.9	0.25
5.0	2.7	0.8	1.11	30.00	1.35	2.8	1.8	0.33
5.0	2.3	0.9	0.83	22.00	1.20	1.7	1.2	0.30
5.0	3.5	0.8	1.11	31.00	1.35	2.9	1.9	0.33
5.0	4.5	1.5	2.50	35.00	1.35	3.5	2.3	0.33
		Special				Special		
5.0	3.2	0.7	0.83	27.00	1.35	2.3	1.5	0.33
5.0	6.0	2.0	1.67	35.00	1.35	3.5	2.3	0.33
5.0	1.9	0.8	1.11	24.00	1.20	2.1	1.4	0.30
5.0	2.8	1.1	1.11	35.00	1.35	3.5	2.3	0.33
5.0	2.8	0.9	1.11	26.00	1.35	2.2	1.4	0.33
5.0	3.2	0.8	1.39	31.00	1.35	2.9	1.9	0.33
5.0	2.3	1.0	1.11	27.00	1.35	2.3	1.5	0.33
5.0	2.3	0.9	1.11	20.00	1.20	1.4	0.9	0.30
5.0	3.0	0.8	1.39	30.00	1.35	2.8	1.8	0.33
5.0	2.6	0.8	0.83	21.00	1.20	1.6	1.0	0.30
5.0	2.5	0.9	1.39	30.00	1.35	2.8	1.8	0.33
5.0	2.3	1.0	1.11	23.00	1.20	1.9	1.3	0.30
5.0	2.0	0.9	0.83	22.00	1.20	1.7	1.2	0.30
5.0	1.8	0.7	0.83	19.00	1.00	1.5	1.1	0.25
5.0	3.5	1.0	1.11	32.00	1.35	3.1	2.0	0.33
5.0	2.2	0.7	0.83	25.00	1.35	2.0	1.3	0.33
		Special				Special		
5.0	2.5	1.0	1.11	35.00	1.35	3.5	2.3	0.33
5.0	2.4	1.0	0.83	22.00	1.20	1.7	1.2	0.30
5.0	3.0	1.0	0.83	30.00	1.35	2.8	1.8	0.33
5.0	2.5	1.0	1.11	28.00	1.35	2.5	1.6	0.33
5.0	1.8	1.0	1.11	19.00	1.00	1.5	1.1	0.25

z—Minimum 500 watts.

Cost of Power to Municipalities and Rates to
Served by The Hydro-Electric
for the

Prompt Payment

Municipality	Annual cost to the Commission on the works to serve electric energy to munici- pality on a kilowatt basis	Domestic service				
		Service charge per month	First rate		All addition- al per kwh	Minimum gross monthly bill
			Number of kwh per month	Per kwh per month		
c—City T—Municipality (Pop. 2,000 or more)						
	\$	cents		cents	cents	\$
Comber.....	42.76		60	3.1	1.0	0.83
Cookstown.....	41.74		45	4.3	1.0	1.39
Cottage Cove Townsite.....			60	4.4	*2.1	†1.67
Cottam.....	40.13		60	3.0	1.1	†2.25
Courtright.....	39.58		60	3.0	1.0	0.83
					1.1	1.11
Creemore.....	37.99		50	3.1	1.0	1.39
Dashwood.....	41.45		60	3.9	1.3	0.83
Delaware.....	38.19		60	3.4	1.0	0.83
Delhi.....T	35.54		60	3.2	1.0	0.83
Deseronto.....	44.36		60	3.9	1.0	0.83
Dorchester.....	38.54		60	2.6	1.0	0.83
Drayton.....	37.40		55	4.0	1.3	1.11
Dresden.....T	38.81		60	3.0	1.1	1.11
Drumbo.....	39.76		60	3.5	1.0	1.11
Dublin.....	39.79		60	3.5	1.1	1.11
Dundalk.....	37.95		60	2.7	1.0	1.11
Dundas.....T	29.93		60	2.5	1.0	0.83
Dunnville.....T	36.20		60	2.1	0.9	0.83
Durham.....T	36.69		60	2.7	1.1	1.11
Dutton.....	43.98		60	2.3	1.0	0.83
East York Twp.....	31.11		60	2.4	1.1	0.83
Elk Lake Townsite.....					Special	
Elmira.....T	34.64		60	2.9	0.9	1.11
Elmvale.....	42.37		60	2.6	1.0	0.83
Elmwood.....	39.85		50	3.5	0.9	1.11
Elora.....	36.68		60	3.0	1.1	1.11
Embro.....	36.21		60	3.3	1.1	0.83
Englehart.....					Special	
Erieau.....	41.26		60	3.7	1.0	1.11
Erie Beach.....	41.66		60	5.3	1.5	1.67
Erin.....	39.81		40	5.0	1.5	1.39
Essex.....T	41.75		60	2.8	0.9	1.11
Etobicoke Twp.....	33.17		60	2.5	1.0	0.83
Exeter.....T	38.77		60	2.6	1.0	0.83
Fergus.....T	34.33		60	2.9	1.0	1.11
Finch.....	34.27		45	3.0	1.2	1.39
Flesherton.....	31.71		60	2.8	1.0	1.11
Fonthill.....	33.71		60	2.8	1.0	0.83
Forest.....	43.56		60	3.4	1.0	0.83
Forest Hill.....T	31.63		60	2.5	1.1	0.83

*2-wire service next 80 kwh, 3-wire service next 180 kwh.
†2-wire service. ‡3-wire service.

Customers in Municipalities, Groups 1, 2, and 4
Power Commission of Ontario
Year 1951—Continued

Discount 10%

Commercial light service				Power service				
Service charge per 100 watts min 1,000 watts	First 100 hrs per month per kwh	All additional per kwh	Minimum gross monthly bill	Basis of rate 130 hours' monthly use of demand per hp	Service charge per kw per month	First 50 hrs per month per kwh	Second 50 hrs per month per kwh	All additional per kwh
cents	cents	cents	\$	\$	\$	cents	cents	cents
5.0	2.7	0.8	0.83	29.00	1.35	2.6	1.7	0.33
5.0	3.8	1.0	1.39	25.00	1.35	2.0	1.3	0.33
			†1.67					
5.0	4.4	1.1	†2.25	37.00	1.35	3.8	2.5	0.33
5.0	2.6	0.8	0.83	27.00	1.35	2.3	1.5	0.33
5.0	3.2	1.0	1.11	39.00	1.35	4.1	2.7	0.33
5.0	2.6	0.9	1.39	21.00	1.20	1.6	1.0	0.30
5.0	3.4	1.1	0.83	34.00	1.35	3.4	2.2	0.33
5.0	3.0	0.8	0.83	30.00	1.35	2.8	1.8	0.33
5.0	2.6	0.8	0.83	25.00	1.35	2.0	1.3	0.33
5.0	3.5	0.9	0.83	28.00	1.35	2.5	1.6	0.33
5.0	2.1	0.8	0.83	24.00	1.20	2.1	1.4	0.30
5.0	3.4	0.7	1.11	30.00	1.35	2.8	1.8	0.33
5.0	2.5	0.8	1.11	25.00	1.35	2.0	1.3	0.33
5.0	3.0	0.8	1.11	25.00	1.35	2.0	1.3	0.33
5.0	3.0	0.8	1.11	34.00	1.35	3.4	2.2	0.33
5.0	2.3	0.8	1.11	20.00	1.20	1.4	0.9	0.30
5.0	2.1	0.7	0.83	19.00	1.00	1.5	1.1	0.25
5.0	1.8	0.6	0.83	18.50	1.00	1.5	0.9	0.25
5.0	2.4	1.0	1.11	26.00	1.35	2.2	1.4	0.33
5.0	2.0	0.6	0.83	21.00	1.20	1.6	1.0	0.30
5.0	1.9	0.6	0.83	19.00	1.00	1.5	1.1	0.25
		Special				Special		
5.0	2.5	0.7	1.11	22.00	1.20	1.7	1.2	0.30
5.0	2.2	0.8	0.83	26.00	1.35	2.2	1.4	0.33
5.0	3.0	0.8	1.11	30.00	1.35	2.8	1.8	0.33
5.0	2.6	0.7	1.11	22.00	1.20	1.7	1.2	0.30
5.0	2.7	0.7	0.83	32.00	1.35	3.1	2.0	0.33
		Special				Special		
5.0	3.5	0.9	1.11	38.00	x1.35	4.0	2.6	0.33
5.0	4.8	1.0	1.67	39.00	1.35	4.1	2.7	0.33
5.0	4.0	1.0	1.39	36.00	1.35	3.7	2.4	0.33
5.0	2.1	0.7	1.11	22.00	1.20	1.7	1.2	0.30
5.0	1.9	0.5	0.83	18.00	1.00	1.4	0.9	0.25
5.0	2.3	0.4	0.83	20.00	1.20	1.4	0.9	0.30
5.0	2.5	0.5	1.11	21.00	1.20	1.6	1.0	0.30
5.0	2.8	1.0	1.39	35.00	1.35	3.5	2.3	0.33
5.0	2.3	0.8	1.11	23.00	1.20	1.9	1.3	0.30
5.0	2.3	0.6	0.83	24.00	1.20	2.1	1.4	0.30
5.0	2.9	0.7	0.83	32.00	1.35	3.1	2.0	0.33
5.0	2.0	0.6	0.83	18.00	1.00	1.4	0.9	0.25

†2-wire service.

†3-wire service.

xMinimum \$3.00 per kw per month.

Cost of Power to Municipalities and Rates to Served by The Hydro-Electric for the

Prompt Payment

Municipality C—City T—Municipality (Pop. 2,000 or more)	Annual cost to the Commission on the works to serve electric energy to muni- cipality on a kilowatt basis	Domestic service				
		Service charge per month	First rate		All addition- al per kwh	Minimum gross monthly bill
			Number of kwh per month	Per kwh per month		
	\$	cents		cents	cents	\$
Fort William.....C	30.24		60	2.0	0.8	0.83
Frankford.....	28.86		60	4.5	1.2	0.83
Galt.....C	30.38		60	2.8	0.8	0.83
Georgetown.....T	37.06		60	2.6	1.0	0.83
Glen Williams.....			60	3.0	1.1	0.83
Geraldton.....T			60	4.4	*2.1 1.1	†1.67 ‡2.25
Glencoe.....	39.89		60	3.0	0.9	1.11
Goderich.....T	39.91		60	3.0	1.1	0.83
Grand Valley.....	46.32		60	2.8	1.0	1.11
Granton.....	38.37		60	3.9	1.4	1.11
Gravenhurst.....T	34.60		60	1.9	0.8	1.11
Grimsby.....T	37.89		60	2.2	0.8	0.83
Guelph.....C	31.21		60	2.1	1.0	0.83
Hagersville.....	33.80		60	2.5	1.0	0.83
Haileybury.....					Special	
Hamilton.....C	31.69		60	2.4	0.9	0.83
Hanover.....T	33.83		60	2.4	1.0	0.83
Harriston.....	37.20		55	3.0	1.0	0.83
Harrow.....	40.83		60	3.3	1.2	0.83
Hastings.....	38.75		45	4.2	1.0	1.11
Havelock.....	41.04		60	3.6	1.5	0.83
Hensall.....	37.60		60	3.2	1.0	0.83
Hepworth.....			60	4.0	1.2	1.67
Hespeler.....T	32.28		60	3.0	1.0	0.83
Highgate.....	44.05		60	3.2	0.9	0.83
Hislop Townsite.....		56	40	3.5	*1.6 0.75	†1.67 ‡2.25
Holstein.....	39.50		60	3.0	1.0	1.11
Hudson Townsite.....			60	4.4	*2.1 1.1	†1.67 ‡2.25
Humberstone.....T	33.13		60	2.4	0.9	0.83
Huntsville.....T	39.02		60	2.4	1.2	1.11
Ingersoll.....T	34.90		60	2.8	1.0	0.83
Iroquois.....	38.21		60	2.5	1.0	0.83
Jarvis.....	39.38		60	2.8	0.9	0.83
Jellicoe.....			60	8.6	*4.3 1.1	†1.67 ‡2.25
Kearns Townsite.....		56	40	3.5	*1.6 0.75	†1.67 ‡2.25
Kemptville.....	35.11		55	3.2	1.0	0.83

*2-wire service next 80 kwh, 3-wire service next 180 kwh.

†2-wire service.

‡3-wire service.

Customers in Municipalities, Groups 1, 2, and 4
Power Commission of Ontario
Year 1951—Continued

Discount 10%

Commercial light service				Power service				
Service charge per 100 watts min 1,000 watts	First 100 hrs per month per kwh	All additional per kwh	Minimum gross monthly bill	Basis of rate 130 hours' monthly use of demand per hp	Service charge per kw per month	First 50 hrs per month per kwh	Second 50 hrs per month per kwh	All additional per kwh
cents	cents	cents	\$	\$	\$	cents	cents	cents
5.0	1.9	0.4	0.83	18.00	1.00	1.4	0.9	0.25
5.0	3.5	1.0	0.83	20.00	1.20	1.4	0.9	0.30
5.0	2.3	0.4	0.83	17.00	1.00	1.3	0.8	0.25
5.0	2.1	0.7	0.83	20.00	1.20	1.4	0.9	0.30
5.0	2.4	0.8	0.83	23.00	1.20	1.9	1.3	0.30
			†1.67					
5.0	4.4	1.1	†2.25	37.00	1.35	3.8	2.5	0.33
5.0	2.6	0.8	1.11	31.00	1.35	2.9	1.9	0.33
5.0	2.6	0.7	0.83	25.00	1.35	2.0	1.3	0.33
5.0	2.4	0.8	1.11	22.00	1.20	1.7	1.2	0.30
5.0	3.4	1.3	1.11	29.00	1.35	2.6	1.7	0.33
5.0	1.5	0.6	1.11	17.00	1.00	1.3	0.8	0.25
5.0	1.8	0.5	0.83	18.00	1.00	1.4	0.9	0.25
5.0	1.9	0.5	0.83	17.00	1.00	1.3	0.8	0.25
5.0	2.0	0.8	0.83	19.00	1.00	1.5	1.1	0.25
		Special				Special		
z5.0	1.7	0.5	0.83	16.50	1.00	1.2	0.7	0.25
5.0	2.0	0.7	0.83	20.00	1.20	1.4	0.9	0.30
5.0	2.6	0.7	0.83	25.00	1.35	2.0	1.3	0.33
5.0	2.9	0.8	0.83	26.00	1.35	2.2	1.4	0.33
5.0	3.6	1.0	1.11	37.00	1.35	3.8	2.5	0.33
5.0	3.1	1.3	0.83	30.00	1.35	2.8	1.8	0.33
5.0	2.7	0.9	0.83	24.00	1.20	2.1	1.4	0.30
5.0	3.5	1.0	1.67	39.00	1.35	4.1	2.7	0.33
5.0	2.5	0.7	0.83	20.00	1.20	1.4	0.9	0.30
5.0	2.8	0.7	0.83	29.00	1.35	2.6	1.7	0.33
			†1.67					
5.0	3.5	1.0	†2.25	30.00	1.35	2.8	1.8	0.33
5.0	2.5	0.8	1.11	35.00	1.35	3.5	2.3	0.33
			†1.67					
5.0	4.4	1.1	†2.25	37.00	1.35	3.8	2.5	0.33
5.0	1.9	0.6	0.83	20.00	1.20	1.4	0.9	0.30
5.0	2.2	1.1	1.11	21.00	1.20	1.6	1.0	0.30
5.0	2.2	0.6	0.83	19.00	1.00	1.5	1.1	0.25
5.0	2.0	0.8	0.83	23.00	1.20	1.9	1.3	0.30
5.0	2.3	0.6	0.83	24.00	1.20	2.1	1.4	0.30
5.0	8.6	1.1	†1.67	50.00	1.35	5.7	3.8	0.33
			†2.25					
			†1.67					
5.0	3.5	1.0	†2.25	30.00	1.35	2.8	1.8	0.33
5.0	2.7	1.0	0.83	25.00	1.35	2.0	1.3	0.33

†2-wire service.

†3-wire service.

z—Minimum 500 watts.

Cost of Power to Municipalities and Rates to Served by The Hydro-Electric for the

Prompt Payment

Municipality	Annual cost to the Commission on the works to serve electric energy to municipality on a kilowatt basis	Domestic service				
		Service charge per month	First rate		All additional per kwh	Minimum gross monthly bill
			Number of kwh per month	Per kwh per month		
c—City T—Municipality (Pop. 2,000 or more)						
Kincardine.....T	\$ 40.70	cents	50	cents 3.1	cents 1.0	\$ 1.11
King Kirkland Townsite.....		56	40	3.5	*1.6	†1.67
Kingston.....C	30.56		50	1.8	0.75	†2.25
Kingsville.....T	39.43		60	2.7	0.8	0.83
Kirkfield.....	38.97		50	5.0	1.0	0.83
Kirkland Lake.....					1.2	1.66
Kitchener.....C	31.99		60	2.3	Special	0.83
Lakefield.....	30.90		55	2.8	1.1	0.83
Lambeth.....	36.74		60	3.5	1.0	0.83
Lanark.....	35.47		50	3.8	1.3	0.83
Lancaster.....	37.86		60	3.0	1.2	0.83
Larder Lake Twp.....					1.0	0.83
La Salle.....	42.95		60	4.2	Special	1.67
Latchford.....			60	5.0	1.4	1.67
Leamington.....T	39.53		60	2.3	2.0	1.11
Lindsay.....T	37.92		60	2.3	0.9	1.11
Listowel.....T	38.03		60	2.6	1.0	0.83
London.....C	33.76		60	2.4	1.0	0.83
London Twp.....	36.55		60	3.1	0.9	1.11
Long Branch.....T	32.77		60	2.2	1.1	0.83
Lucan.....	39.62		60	3.2	0.8	0.83
Lucknow.....	40.06		55	2.7	1.1	1.39
Lynden.....	37.22		60	3.0	1.0	0.83
Madoc.....	38.14		60	2.9	1.0	0.83
Magnetawan.....	44.70		60	6.0	1.2	3.60
Markdale.....	38.32		60	2.0	2.0	0.83
Markham.....	36.79		60	2.8	1.0	0.83
Marmora.....	41.24		60	3.6	1.0	0.83
Martintown.....	35.63		50	3.0	1.0	1.11
Matachewan Townsite.....			50	4.5	1.0	1.11
Matheson.....		56	40	3.5	*1.6	†1.67
Maxville.....	37.56		55	3.1	0.75	†2.25
McGarry Imp. Dist.....					1.0	0.83
Meaford.....T	37.24		60	2.6	Special	0.83
Merlin.....	40.95		60	3.1	1.0	0.83
Merrickville.....	27.02		50	5.0		1.11
Merritton.....T	32.25		50	2.5	1.0	1.11
Midland.....T	33.61		60	2.8	1.2	0.83
Mildmay.....	37.05		60	2.3	0.8	0.83
Millbrook.....	41.72		50	2.8	1.0	1.39
			60	4.6	1.0	0.83

*2-wire service next 80 kwh, 3-wire service next 180 kwh.

†2-wire service.

‡3-wire service.

**Customers in Municipalities, Groups 1, 2, and 4
Power Commission of Ontario
Year 1951—Continued**

Discount 10%

Commercial light service				Power service				
Service charge per 100 watts min 1,000 watts	First 100 hrs per month per kwh	All additional per kwh	Minimum gross monthly bill	Basis of rate 130 hours' monthly use of demand per hp	Service charge per kw per month	First 50 hrs per month per kwh	Second 50 hrs per month per kwh	All additional per kwh
cents	cents	cents	\$	\$	\$	cents	cents	cents
5.0	2.6	0.8	1.11	26.00	1.35	2.2	1.4	0.33
			†1.67					
5.0	3.5	1.0	†2.25	30.00	1.35	2.8	1.8	0.33
5.0	1.5	0.7	0.83	18.00	1.00	1.4	0.9	0.25
5.0	2.0	0.7	0.83	23.00	1.20	1.9	1.3	0.30
5.0	4.5	1.0	1.66	39.00	1.35	4.1	2.7	0.33
		Special				Special		
5.0	2.1	0.8	0.83	21.00	1.20	1.6	1.0	0.30
5.0	2.4	0.8	0.83	22.00	1.20	1.7	1.2	0.30
5.0	3.1	1.1	0.83	39.00	1.35	4.1	2.7	0.33
5.0	3.3	1.0	0.83	38.00	1.35	4.0	2.6	0.33
5.0	2.5	1.0	0.83	35.00	1.35	3.5	2.3	0.33
		Special				Special		
5.0	3.7	1.1	1.67	31.00	1.35	2.9	1.9	0.33
5.0	4.5	2.0	1.67	30.00	1.35	2.8	1.8	0.33
5.0	2.0	0.5	1.11	21.00	1.20	1.6	1.0	0.30
5.0	2.0	0.9	0.83	19.00	1.00	1.5	1.1	0.25
5.0	2.3	0.6	0.83	21.00	1.20	1.6	1.0	0.30
5.0	1.8	0.4	0.83	16.00	1.00	1.1	0.7	0.25
5.0	2.7	0.7	1.11	23.00	1.20	1.9	1.3	0.30
5.0	1.8	0.5	0.83	18.00	1.00	1.4	0.9	0.25
5.0	2.7	0.6	0.83	24.00	1.20	2.1	1.4	0.30
5.0	2.2	0.8	1.39	30.00	1.35	2.8	1.8	0.33
5.0	2.5	0.8	0.83	23.00	1.20	1.9	1.3	0.30
5.0	2.5	1.1	0.83	30.00	1.35	2.8	1.8	0.33
5.0	5.5	2.0	3.60	35.00	1.35	3.5	2.3	0.33
5.0	1.8	0.8	0.83	21.00	1.20	1.6	1.0	0.30
5.0	2.4	0.6	0.83	21.00	1.20	1.6	1.0	0.30
5.0	3.2	0.9	0.83	27.00	1.35	2.3	1.5	0.33
5.0	3.0	1.0	1.66	30.00	1.35	2.8	1.8	0.33
			†1.67					
5.0	3.5	1.0	†2.25	30.00	1.35	2.8	1.8	0.33
			†1.67					
5.0	3.5	1.0	†2.25	30.00	1.35	2.8	1.8	0.33
5.0	2.8	1.0	0.83	35.00	1.35	3.5	2.3	0.33
		Special				Special		
5.0	2.2	0.8	0.83	24.00	1.20	2.1	1.4	0.30
5.0	2.6	0.7	0.83	30.00	1.35	2.8	1.8	0.33
Same as Domestic						Special		
5.0	2.2	0.8	0.83	19.00	1.00	1.5	1.1	0.25
5.0	1.8	0.7	0.83	17.00	1.00	1.3	0.8	0.25
5.0	2.4	0.8	1.39	30.00	1.35	2.8	1.8	0.33
5.0	4.2	1.0	0.83	35.00	1.35	3.5	2.3	0.33

†2-wire service.

†3-wire service.

Cost of Power to Municipalities and Rates to Served by The Hydro-Electric for the

Prompt Payment

Municipality	Annual cost to the Commission on the works to serve electric energy to municipality on a kilowatt basis	Domestic service				
		Service charge per month	First rate		All additional per kwh	Minimum gross monthly bill
			Number of kwh per month	Per kwh per month		
c—City						
T—Municipality (Pop. 2,000 or more)						
	\$	cents		cents	cents	\$
Milton.....T	35.23		60	2.8	1.1	0.83
Milverton.....	38.53		60	3.0	1.1	1.11
Mimico.....T	31.11		60	2.5	1.1	0.83
Mitchell.....T	35.26		60	3.3	1.2	0.83
Moorefield.....	36.32		60	3.2	1.0	1.39
Morrisburg.....	37.41		60	3.0	1.0	0.83
Mount Brydges.....	39.52		60	2.4	0.8	0.83
Mount Forest.....T	36.88		60	2.8	1.0	0.83
Napanee.....T	37.17		60	2.8	1.1	0.83
Neustadt.....	35.13		60	3.0	1.0	1.39
Newboro.....	35.20		60	5.0	1.5	3.33
Newburgh.....	37.08		60	4.3	1.2	1.39
Newbury.....	43.42		60	4.0	1.0	1.11
Newcastle.....	38.27		60	3.0	0.9	1.11
New Hamburg.....	35.80		60	3.0	1.1	0.83
New Liskeard.....					Special	
Newmarket.....T	32.15		60	2.4	0.8	0.83
New Toronto.....T	32.89		60	2.5	1.0	0.83
Niagara.....T	31.02		60	2.8	1.1	0.83
Niagara Falls.....C	27.50		60	1.9	0.8	1.00
Nipigon Twp.....	34.46		60	2.8	1.0	1.11
North Bay.....C			60	2.3	1.0	0.83
North York Twp.....	32.44		60	2.8	1.4	0.83
Norwich.....	37.77		60	2.5	0.9	0.83
Norwood.....	39.41		50	3.9	1.1	1.11
Oakville.....T	35.76		60	2.8	1.2	0.83
Oil Springs.....	45.85		60	2.6	0.9	1.11
Omeme.....	37.91		60	3.3	1.0	0.83
Orangeville.....T	40.37		55	2.8	1.0	1.11
Orono.....	37.63		60	4.5	1.0	1.11
Oshawa.....C	33.20		60	3.0	1.1	0.83
Ottawa.....C	27.68	33-66	60	2.0		
Otterville.....	37.79		60	1.0	0.5	0.83
Owen Sound.....C	32.97		60	2.6	0.9	0.83
Paisley.....	41.18		60	2.4	1.0	1.11
Palmerston.....			50	4.0	1.0	1.39
Palmerston.....	36.14		60	2.6	1.0	1.11
Paris.....T	31.86		60	2.4	1.0	0.83
Parkhill.....	41.47		60	3.4	1.0	1.11
Parry Sound.....T	37.06		60	3.2	1.5	0.83
Penetanguishene.....T	35.65		60	2.4	0.9	0.83

Customers in Municipalities, Groups 1, 2, and 4
Power Commission of Ontario
Year 1951—Continued

Discount 10%

Commercial light service				Power service				
Service charge per 100 watts min 1,000 watts	First 100 hrs per month per kwh	All additional per kwh	Minimum gross monthly bill	Basis of rate 130 hours' monthly use of demand per hp	Service charge per kw per month	First 50 hrs per month per kwh	Second 50 hrs per month per kwh	All additional per kwh
cents	cents	cents	\$	\$	\$	cents	cents	cents
5.0	2.3	0.8	0.83	23.00	1.20	1.9	1.3	0.30
5.0	2.6	1.0	1.11	21.00	1.20	1.6	1.0	0.30
5.0	2.2	0.8	0.83	21.00	1.20	1.6	1.0	0.30
5.0	2.8	0.8	0.83	26.00	1.35	2.2	1.4	0.33
5.0	2.8	0.9	1.39	30.00	1.35	2.8	1.8	0.33
5.0	2.7	0.8	0.83	23.00	1.20	1.9	1.3	0.30
5.0	1.8	0.5	0.83	20.00	1.20	1.4	0.9	0.30
5.0	2.3	0.8	0.83	26.00	1.35	2.2	1.4	0.33
5.0	2.5	1.0	0.83	21.00	1.20	1.6	1.0	0.30
5.0	2.5	0.8	1.39	30.00	1.35	2.8	1.8	0.33
5.0	4.5	1.5	5.55	30.00	1.35	2.8	1.8	0.33
5.0	3.8	1.2	1.39	28.00	1.35	2.5	1.6	0.33
5.0	3.5	0.9	1.11	35.00	1.35	3.5	2.3	0.33
5.0	2.5	0.8	1.11	25.00	1.35	2.0	1.3	0.33
5.0	2.5	0.8	0.83	22.00	1.20	1.7	1.2	0.30
5.0	2.2	Special	0.83	22.00	1.20	Special	1.2	0.30
5.0	1.9	0.7	0.83	19.00	1.00	1.5	1.1	0.25
5.0	2.3	0.7	0.83	21.00	1.20	1.6	1.0	0.30
5.0	1.7	0.6	1.00	16.00	1.00	1.1	0.7	0.25
5.0	2.4	0.8	1.11	21.00	1.20	1.6	1.0	0.30
5.0	1.8	0.9	0.83	22.00	1.20	1.7	1.2	0.30
5.0	2.7	1.0	0.83	20.00	1.20	1.4	0.9	0.30
5.0	2.2	0.7	0.83	20.00	1.20	1.4	0.9	0.30
5.0	3.4	0.9	1.11	26.00	1.35	2.2	1.4	0.33
5.0	2.5	1.0	0.83	19.00	1.00	1.5	1.1	0.25
5.0	2.4	0.6	1.11	27.00	1.35	2.3	1.5	0.33
5.0	2.8	0.8	0.83	30.00	1.35	2.8	1.8	0.33
5.0	2.0	0.8	1.11	18.00	1.00	1.4	0.9	0.25
5.0	4.0	0.8	1.11	35.00	1.35	3.5	2.3	0.33
5.0	2.5	0.8	0.83	22.00	1.20	1.7	1.2	0.30
5.0	2.1	0.5	0.83	18.00	a1.00	1.8	1.2	0.15b
5.0	2.2	0.5	0.83	22.00	1.20	1.7	1.2	0.30
5.0	2.1	0.8	1.11	19.00	1.00	1.5	1.1	0.25
5.0	3.5	0.8	1.39	35.00	1.35	3.5	2.3	0.33
5.0	2.2	0.8	1.11	21.00	1.20	1.6	1.0	0.30
5.0	1.9	0.5	0.83	16.00	1.00	1.1	0.7	0.25
5.0	2.7	1.0	1.11	32.00	1.35	3.1	2.0	0.33
5.0	2.7	1.2	0.83	24.00	1.20	2.1	1.4	0.30
5.0	2.1	0.7	0.83	20.00	1.20	1.4	0.9	0.30

a—\$1.00 per hp.

b—Local discount 15 & 10 %.

Cost of Power to Municipalities and Rates to Served by The Hydro-Electric for the

Prompt Payment

Municipality	Annual cost to the Commission on the works to serve electric energy to munici- pality on a kilowatt basis	Domestic service				
		Service charge per month	First rate		All addition- al per kwh	Minimum gross monthly bill
			Number of kwh per month	Per kwh per month		
c—City T—Municipality (Pop. 2,000 or more)						
	\$	cents		cents	cents	\$
Perth.....T	33.46		55	2.8	1.0	0.83
Peterborough.....C	31.73		60	2.2	1.1	0.83
Petrolia.....T	41.24		60	3.1	1.0	0.83
Picton.....T	36.12		60	2.0	0.8	0.83
Plattsville.....	37.93		60	3.3	1.2	0.83
Point Edward.....	36.85		60	3.5	1.2	0.83
Port Arthur.....C	28.53		60	2.0	0.8	0.83
Port Carling.....		33-66	45	4.7	1.5	1.66
Port Colborne.....T	33.77		60	2.7	0.9	0.83
Port Credit.....T	34.83		60	2.4	1.1	0.83
Port Dalhousie.....T	35.24		60	2.9	1.1	0.83
Port Dover.....T	36.57		60	2.2	0.8	0.83
Port Elgin.....T	40.66		60	3.5	1.3	1.11
Port Hope.....T	38.78		60	2.4	1.1	0.83
Port McNicoll.....	33.59		60	3.3	1.0	0.83
Port Perry.....	37.92		50	4.0	1.2	1.11
Port Rowan.....	39.86		60	3.2	1.1	1.11
Port Stanley.....	38.78		60	2.8	0.9	1.11
Powassan.....		56	40	3.5	*1.6 0.75	†1.67 ‡2.25
Prescott.....T	36.97		60	2.9	1.3	0.83
Preston.....T	30.03		60	2.9	0.9	0.83
Priceville.....	45.91		60	5.0	1.5	1.67
Princeton.....	38.38		60	3.0	1.0	1.39
Queenston.....	31.72		60	2.6	1.0	0.83
Red Lake Townsite.....			60	4.4	*2.1 1.1	†1.67 ‡2.25
Red Rock Imp. Dist.....	28.51		60	3.0	1.1	†1.67 ‡2.22
Renfrew.....T	33.02		45	3.5	1.0	0.83
Richmond.....	32.86		40	4.3	1.2	1.67
Richmond Hill.....	37.32		60	2.5	0.9	0.83
Ridgetown.....T	42.61		60	2.4	0.9	0.83
Ripley.....	40.76		55	4.8	1.0	1.67
Riverside.....T	39.62		60	3.3	1.1	1.11
Rockwood.....	39.02		60	3.0	1.1	0.83
Rodney.....	44.93		60	2.4	0.8	0.83
Rosseau.....	38.20		60	4.0	2.0	2.22
Russell.....	33.45		55	4.6	1.2	1.39
St. Catharines.....C	31.17		60	2.2	1.0	1.00
St. Clair Beach.....	40.03		60	3.6	1.2	1.11
St. George.....	37.12		60	2.5	0.9	0.83
St. Jacobs.....	34.41		60	2.6	1.0	0.83

*2-wire service next 80 kwh, 3-wire service next 180 kwh.
†2-wire service. ‡3-wire service.

Customers in Municipalities, Groups 1, 2, and 4
Power Commission of Ontario
Year 1951—Continued

Discount 10%

Commercial light service				Power service				
Service charge per 100 watts min 1,000 watts	First 100 hrs per month per kw/h	All additional per kw/h	Minimum gross monthly bill	Base of rate 100 hours monthly use of demand per hr	Service charge per kw per month	First 50 hrs per month per kw/h	Second 50 hrs per month per kw/h	All additional per kw/h
cents	cents	cents	\$	\$	\$	cents	cents	cents
5 0	2 0	0 6	0 83	17 00	1 00	1 3	0 8	0 25
5 0	2 0	0 9	0 83	18 00	1 00	1 4	0 9	0 25
5 0	2 4	0 8	0 83	28 00	1 35	2 5	1 6	0 33
5 0	1 7	0 5	0 83	18 00	1 00	1 4	0 9	0 25
5 0	3 0	1 0	0 83	29 00	1 35	2 6	1 7	0 33
5 0	3 0	1 0	0 83	28 00	1 35	2 5	1 6	0 33
5 0	1 9	0 4	0 83	18 00	1 00	1 4	0 9	0 25
5 0	4 5	0 8	1 66	32 00	1 35	3 1	2 0	0 33
5 0	2 4	0 7	0 83	20 00	1 20	1 4	0 9	0 30
5 0	2 1	0 8	0 83	22 00	1 20	1 7	1 2	0 30
5 0	2 3	0 7	0 83	19 00	1 00	1 5	1 1	0 25
5 0	1 7	0 6	0 83	18 00	1 00	1 4	0 9	0 25
5 0	2 8	1 0	1 11	28 00	1 35	2 5	1 6	0 33
5 0	2 0	0 9	0 83	21 00	1 20	1 6	1 0	0 30
5 0	2 8	0 8	0 83	26 00	1 35	2 2	1 4	0 33
5 0	3 2	1 0	1 11	28 00	1 35	2 5	1 6	0 33
5 0	2 7	0 9	1 11	33 00	1 35	3 2	2 1	0 33
5 0	2 4	0 6	1 11	26 00	1 35	2 2	1 4	0 33
			+1 67					
5 0	3 5	1 0	22 25	30 00	1 35	2 8	1 8	0 33
5 0	2 6	1 3	0 83	22 00	1 20	1 7	1 2	0 30
5 0	2 4	0 6	0 83	18 00	1 00	1 4	0 9	0 25
5 0	4 5	1 5	1 67	33 00	1 35	3 2	2 1	0 33
5 0	2 7	0 8	1 39	24 00	1 20	2 1	1 4	0 30
5 0	2 1	0 8	0 83	24 00	1 20	2 1	1 4	0 30
			+1 67					
5 0	4 4	1 1	22 25	37 00	1 35	3 8	2 5	0 33
			+1 67					
5 0	3 0	1 0	22 22	21 00	1 20	1 6	1 0	0 30
5 0	2 0	0 5	0 83	21 00	1 20	1 6	1 0	0 30
5 0	4 0	1 0	1 67	35 00	1 35	3 5	2 2	0 33
5 0	2 0	0 6	0 83	20 00	1 20	1 4	0 9	0 30
5 0	1 9	0 6	0 83	20 00	1 20	1 4	0 9	0 30
5 0	4 3	0 8	1 67	30 00	1 35	2 8	1 8	0 33
5 0	2 6	0 6	1 11	25 00	1 35	2 0	1 3	0 33
5 0	2 5	0 9	0 83	27 00	1 35	2 3	1 5	0 33
5 0	2 1	0 5	0 83	24 00	1 20	2 1	1 4	0 30
5 0	4 0	2 0	2 22	39 00	1 35	4 1	2 7	0 33
5 0	4 3	1 0	1 39	35 00	1 35	3 5	2 3	0 33
5 0	1 9	0 5	at 0 00	17 00	1 00	1 3	0 8	0 25
5 0	3 5	1 1	1 11	32 00	1 35	3 1	2 0	0 33
5 0	2 0	0 6	0 83	22 00	1 20	1 7	1 2	0 30
5 0	2 2	0 8	0 83	26 00	1 20	1 4	0 9	0 30

+2-wire service.

+3-wire service.

z—Minimum 500 watts.

a—\$1.00 or \$1.00 per kw.

**Cost of Power to Municipalities and Rates to
Served by The Hydro-Electric
for the
Prompt Payment**

Municipality		Annual cost to the Commission on the works to serve electric energy to municipality on a kilowatt basis	Domestic service			
			Service charge per month	First rate		Minimum gross monthly bill
			Number of kwh per month	Per kwh per month	All additional per kwh	
c—City						
T—Municipality (Pop. 2,000 or more)						
		\$	cents	cents	cents	\$
St. Marys.....	T	32.78	60	3.5	1.2	0.83
St. Thomas.....	C	33.87	60	2.6	1.0	0.83
Sarnia.....	C	36.35	60	3.0	1.2	0.83
Scarborough Twp.....		32.42	60	2.6	1.1	0.83
Schreiber Twp.....		48.94	60	5.0	2.0	3.89
Seaforth.....	T	32.34	60	3.1	1.2	0.83
Shelburne.....		40.98	60	2.7	1.0	1.11
Simcoe.....	T	32.09	60	2.2	0.8	0.83
Sioux Lookout.....	T		60	4.0	1.5	2.00
Smiths Falls.....	T	29.90	60	2.6	1.0	0.83
Smithville.....		36.68	60	3.0	0.9	0.83
Southampton.....		40.68	50	3.2	1.1	1.11
South Porcupine Townsite.....					Special	
Springfield.....		38.67	60	3.4	0.9	0.83
Stamford Twp.....		27.15	60	2.7	1.0	1.00
Stayner.....		36.87	55	3.0	1.0	0.83
Stirling.....		33.13	60	2.5	1.0	0.83
Stoney Creek.....		33.48	60	3.5	1.1	0.83
Stouffville.....		35.81	60	2.1	0.8	0.83
Stratford.....	C	32.94	60	2.6	0.9	0.83
Strathroy.....	T	33.85	60	3.1	0.9	0.83
Streetsville.....		34.25	60	2.8	1.0	0.83
Sturgeon Falls.....	T				Special	
Sudbury.....	C		60	2.4	1.0	0.83
Sunderland.....		36.91	60	3.5	1.0	1.11
Sutton.....		38.19	60	2.7	1.0	1.11
Swansea.....	T	33.66	60	2.4	1.1	0.83
Tara.....		43.58	60	2.8	1.2	1.11
Tavistock.....		36.32	60	2.5	0.9	0.83
Tecumseh.....	T	40.17	60	3.5	1.0	1.11
Teeswater.....		44.86	60	3.0	1.0	1.11
Terrace Bay Imp. Dist.....		38.15	56	3.5	*1.6	†1.67
Thamesford.....		40.74	60	3.1	0.75	‡2.25
Thamesville.....		43.69	60	3.0	1.1	0.83
Thedford.....		42.97	60	3.6	1.0	0.83
Thornbury.....		40.13	60	3.5	1.0	0.83
Thorndale.....		36.52	60	4.1	1.2	0.83
Thornloe.....					Special	
Thornton.....		33.57	60	3.8	1.0	1.39
Thorold.....	T	32.34	60	2.1	0.9	0.83

*2-wire service next 80 kwh, 3-wire service next 180 kwh.

‡2-wire service.

†3-wire service.

Customers in Municipalities, Groups 1, 2, and 4
Power Commission of Ontario
Year 1951—Continued

Discount 10%

Commercial light service				Power service				
Service charge per 100 watts min 1,000 watts	First 100 hrs per month per kwh	All additional per kwh	Minimum gross monthly bill	Basis of rate 130 hours' monthly use of demand per hp	Service charge per kw per month	First 50 hrs per month per kwh	Second 50 hrs per month per kwh	All additional per kwh
cents	cents	cents	\$	\$	\$	cents	cents	cents
5.0	3.0	1.0	0.83	23.00	1.20	1.9	1.3	0.30
5.0	1.9	0.4	0.83	17.00	1.00	1.3	0.8	0.25
5.0	2.5	0.8	0.83	27.00	1.35	2.3	1.5	0.33
5.0	2.1	0.7	0.83	21.00	1.20	1.6	1.0	0.30
5.0	5.0	2.0	3.89	30.00	1.35	2.8	1.8	0.33
5.0	2.6	0.9	0.83	24.00	1.20	2.1	1.4	0.30
5.0	2.3	0.9	1.11	20.00	1.20	1.4	0.9	0.30
5.0	1.8	0.5	0.83	19.00	1.00	1.5	1.1	0.25
5.0	3.5	2.0	x1.00	30.00	1.35	2.8	1.8	0.33
5.0	2.0	0.7	0.83	19.00	1.00	1.5	1.1	0.25
5.0	2.5	0.7	0.83	25.00	1.35	2.0	1.3	0.33
5.0	2.9	1.1	1.11	26.00	1.35	2.2	1.4	0.33
5.0	2.9	Special	0.83	30.00	1.35	Special	1.8	0.33
5.0	2.4	0.7	1.00	18.00	1.00	1.4	0.9	0.25
5.0	2.3	0.9	0.83	21.00	1.20	1.6	1.0	0.30
5.0	2.0	1.0	0.83	19.00	1.00	1.5	1.1	0.25
5.0	3.2	0.7	0.83	27.00	1.35	2.3	1.5	0.33
5.0	1.8	0.5	0.83	20.00	1.20	1.4	0.9	0.30
5.0	2.0	0.4	0.83	18.00	1.00	1.4	0.9	0.25
5.0	2.5	0.6	0.83	22.00	1.20	1.7	1.2	0.30
5.0	2.3	0.5	0.83	20.00	1.20	1.4	0.9	0.30
5.0	2.4	Special	0.83	24.00	1.20	Special	1.4	0.30
5.0	3.0	0.8	1.11	33.00	1.35	3.2	2.1	0.33
5.0	2.4	0.7	1.11	28.00	1.35	2.5	1.6	0.33
5.0	2.0	0.8	0.83	20.00	1.20	1.4	0.9	0.30
5.0	2.4	1.0	1.11	31.00	1.35	2.9	1.9	0.33
5.0	2.0	0.5	0.83	20.00	1.20	1.4	0.9	0.30
5.0	2.9	0.7	1.11	27.00	1.35	2.3	1.5	0.33
5.0	2.6	0.8	1.11	34.00	1.35	3.4	2.2	0.33
5.0	3.5	1.0	†1.67	30.00	1.35	2.8	1.8	0.33
5.0	2.5	0.8	†2.25	24.00	1.20	2.1	1.4	0.30
5.0	2.5	0.6	0.83	26.00	1.35	2.2	1.4	0.33
5.0	3.2	0.7	0.83	28.00	1.35	2.5	1.6	0.33
5.0	3.0	0.8	0.83	20.00	1.20	1.4	0.9	0.30
5.0	3.7	1.0	0.83	36.00	1.35	3.7	2.4	0.33
5.0	3.3	Special	1.39	30.00	1.35	Special	1.8	0.33
5.0	1.5	0.6	0.83	18.00	1.00	1.4	0.9	0.25

†2-wire service. †3-wire service.
 x—Per 100 watts—min. \$2.00 max. \$5.00.

Cost of Power to Municipalities and Rates to Served by The Hydro-Electric for the

Prompt Payment

Municipality		Annual cost to the Commission on the works to serve electric energy to municipality on a kilowatt basis	Domestic service			
			Service charge per month	First rate		Minimum gross monthly bill
				Number of kwh per month	Per kwh per month	All additional per kwh
c—City						
T—Municipality (Pop. 2,000 or more)						
		\$	cents		cents	cents
Tilbury.....	T	41.95		60	2.3	0.9
Tillsonburg.....	T	32.16		60	2.6	0.9
Timmins.....						Special
Toronto.....	C	31.60		60	1.8	1.2
Toronto Twp.....		33.47		60	2.7	1.2
Tottenham.....		38.76		50	3.5	1.0
Trafalgar Twp.....		35.53		60	3.9	1.9
Trenton.....	T	28.59		60	1.8	0.8
Tweed.....		40.24		50	3.8	1.0
Uxbridge.....		38.30		60	3.1	1.0
Victoria Harbour.....		44.57		60	2.8	1.2
Walkerton.....	T	34.05		50	3.2	1.1
Wallaceburg.....	T	37.47		60	2.6	0.8
Wardsville.....		43.70		60	3.6	0.9
Warkworth.....		36.69		50	3.5	1.2
Waterdown.....		34.29		60	2.6	1.0
Waterford.....		35.86		60	2.3	0.9
Waterloo.....	C	31.60		60	2.0	0.9
Watford.....		37.43		60	3.1	1.1
Waubashene.....		40.41		55	3.0	1.0
Welland.....	C	31.30		60	1.9	0.8
Wellesley.....		36.53		60	3.0	1.2
Wellington.....		37.35		60	2.5	0.9
West Lorne.....		41.82		60	2.7	0.9
Weston.....	T	32.62		60	2.3	1.0
Westport.....		35.81		50	4.0	1.0
Wheatley.....		42.38		60	2.9	1.0
Whitby.....	T	33.58		60	2.7	1.2
Warton.....	T	42.64		50	2.8	0.9
Williamsburg.....		41.89		60	2.0	0.8
Winchester.....		34.30		60	2.3	1.0
Windermere.....		35.72		60	4.0	1.5
Windsor.....	C	36.14		60	3.0	0.8
Wingham.....	T	37.84		50	3.2	1.1
Woodbridge.....		34.81		60	2.6	0.9
Woodstock.....	C	32.02		60	2.9	1.0
Woodville.....		41.76		50	3.8	1.0
Wyoming.....		40.15		60	3.4	1.0
York Twp.....		31.43		60	2.2	0.9
Zurich.....		40.26		60	3.7	1.2

xUnder 10 kw 83 cents; over 10 kw \$2.22 in former area No. 1.
 Under 10 kw \$1.11; over 10 kw \$2.22 in former area No. 2.

Customers in Municipalities, Groups 1, 2, and 4

Power Commission of Ontario

Year 1951—Concluded

Discount 10%

Commercial light service				Power service				
Service charge per 100 watts min 1,000 watts	First 100 hrs per month per kwh	All additional per kwh	Minimum gross monthly bill	Basis of rate 130 hours' monthly use of demand per hp	Service charge per kw per month	First 50 hrs per month per kwh	Second 50 hrs per month per kwh	All additional per kwh
cents	cents	cents	\$	\$	\$	cents	cents	cents
5.0	1.9	0.7	0.83	18.50	1.00	1.5	0.9	0.25
5.0	2.1	0.6	0.83	20.00	1.20	1.4	0.9	0.30
		Special				Special		
z7.5	1.9	0.5	0.83	21.00	1.00	2.0	1.0	0.31
					b d-c	3.0	1.2	0.60
5.0	2.3	0.9	1.11	22.00	1.20	1.7	1.2	0.30
5.0	3.0	1.0	1.39	30.00	1.35	2.8	1.8	0.33
5.0	3.2	1.1	0.83	28.00	1.35	2.5	1.6	0.33
5.0	1.6	0.6	0.83	19.00	1.00	1.5	1.1	0.25
5.0	3.3	1.0	0.83	29.00	1.35	2.6	1.7	0.33
5.0	2.7	0.8	1.11	26.00	1.35	2.2	1.4	0.33
5.0	2.3	1.0	1.11	28.00	1.35	2.5	1.6	0.33
5.0	2.4	0.9	1.11	26.00	1.35	2.2	1.4	0.33
5.0	2.0	0.5	0.83	19.00	1.00	1.5	1.1	0.25
5.0	3.2	0.8	1.11	30.00	1.35	2.8	1.8	0.33
5.0	3.0	1.0	1.11	32.00	1.35	3.1	2.0	0.33
5.0	2.1	0.7	0.83	20.00	1.20	1.4	0.9	0.30
5.0	1.8	0.6	0.83	17.00	1.00	1.3	0.8	0.25
5.0	1.9	0.6	0.83	20.00	1.20	1.4	0.9	0.30
5.0	2.8	0.9	0.83	28.00	1.35	2.5	1.6	0.33
5.0	2.2	1.0	1.11	33.00	1.35	3.2	2.1	0.33
5.0	1.7	0.6	0.83	17.00	1.00	1.3	0.8	0.25
5.0	2.7	1.0	0.83	25.00	1.35	2.0	1.3	0.33
5.0	2.3	0.7	0.83	25.00	1.35	2.0	1.3	0.33
5.0	2.4	0.6	1.11	26.00	1.35	2.2	1.4	0.33
5.0	1.8	0.7	0.83	19.00	1.00	1.5	1.1	0.25
5.0	3.5	1.0	1.94	39.00	1.35	4.1	2.7	0.33
5.0	2.7	0.7	0.83	26.00	1.35	2.2	1.4	0.33
5.0	2.3	1.0	0.83	28.00	1.35	2.5	1.6	0.33
5.0	2.3	0.8	1.11	33.00	1.35	3.2	2.1	0.33
5.0	2.0	0.8	0.83	32.00	1.35	3.1	2.0	0.33
5.0	1.8	0.8	0.83	22.00	1.20	1.7	1.2	0.30
5.0	4.0	1.5	2.22	39.00	1.35	4.1	2.7	0.33
5.0	2.5	0.6	0.83	20.00	1.20	1.4	0.9	0.30
5.0	2.6	0.8	1.11	28.00	1.35	2.5	1.6	0.33
5.0	2.2	0.7	0.83	19.00	1.00	1.5	1.1	0.25
5.0	2.0	0.8	1.11	19.00	1.00	1.5	1.1	0.25
5.0	2.8	0.8	1.11	28.00	1.35	2.5	1.6	0.33
5.0	2.9	0.7	0.83	33.00	1.35	3.2	2.1	0.33
5.0	2.0	0.6	0.83	19.00	1.00	1.5	1.1	0.25
5.0	3.4	0.9	0.83	32.00	1.35	3.1	2.0	0.33

z—Minimum 500 watts.

b—Direct-current service charge \$1.50 per kw per month for first 7½kw plus \$1.05 per kw for all additional demand.

STATEMENT "D"

Statement "D" gives useful and interesting information concerning the customers in the co-operating municipalities. It gives for each of these municipalities the population, and for each of the three main classes of service the revenue, number of customers, average consumption or load, and certain average unit costs.

Revenues shown are the totals received by the municipal electrical utilities for each class of service. These revenues are required to cover the cost of purchased power and to provide for local operating costs, depreciation and other reserves, as well as the retirement of capital debt. When operating surpluses occur, these may be used for the extension or improvement of plant, or applied towards a reduction in rates.

The average costs shown per kilowatt-hour are the result of dividing total revenues for each class of service by the total kilowatt-hours consumed. While these average costs are in part dependent upon the rates to customers shown in statement "C", they also reflect the combined effect of many other variables. They should not be used, therefore, in comparing the cost of service in one municipality with the cost in another.

Within any municipality an increase in consumption is one of the main factors in reducing the average cost per unit of energy or power. Where energy consumption is high because of the generous use of a variety of electrical appliances, greater advantage is taken of low follow-up rates or of economical water-heater rates. Average costs per kilowatt-hour in these places are low. In Ontario municipalities a large annual consumption per domestic customer is a feature of electrical service. The following summary substantiates this fact.

Type of municipality	No.	Average annual consumption per domestic customer				
		Less than 1,000 kwh	1,000— 1,999 kwh	2,000— 2,999 kwh	3,000— 3,999 kwh	4,000+ kwh
Cities.....	27	0	0	3	11	13
Voted Areas.....	9	0	0	0	3	6
Towns.....	92	1	8	24	37	22
Smaller Municipalities.....	194	6	59	81	33	15
Not Shown.....	2					

The Commission has always aimed to extend the benefits of electrical service to every community that can be reached economically by transmission lines. Some municipalities are so distant from a source of supply, or have such small power requirements, that the cost of delivering power to them is relatively high when compared with that of communities more favourably situated. Even so, service is provided if customers are able and willing to pay the cost. The economy of the Commission's operations is borne out by the average cost of power throughout the Province. For domestic service over 98.5 per cent of the energy used by customers served through municipal utilities in 1951 cost on the average 1.55 cents or less per kilowatt-hour. Similarly for the municipal utilities, 2 cents or less per kilowatt-hour was the average cost for commercial light service for over 97.1 per cent of the energy used. Over 97.4 per cent of aggregate kilowatts sold for power service in these municipalities cost on the average less than \$34 per kilowatt.

Power service rates incorporate charges both for power (kilowatts of demand) and for energy (kilowatt-hours consumed). A customer is thus required to pay first for his share of the demand that the municipal system

is obliged to supply, and second for the continued use of the energy represented by part or all of that demand. The ratio between the number of kilowatt-hours actually used and the possible number of kilowatt-hours if the power demand were continuously used, is known as the load factor. If the customer uses his demand for a brief time only, his load factor is low and energy charges form a relatively small part of his total cost. If he uses his demand for a long period, his load factor is high and energy charges are a more important part of the total cost. For a given demand, an increase in the load factor, by increasing the total cost, raises the average cost per kilowatt of demand; on the other hand, it lowers the average cost per kilowatt-hour by spreading the total cost over a greater number of kilowatt-hours.

The retail rate schedule for any municipality is devised with due regard for load factors within each class of service and also for the relative magnitude of each class of service load within the municipality. In this calculation many variables are involved. It is unsound, therefore, to give much validity to the average cost per kilowatt-hour for any class of service when comparing rates in various municipalities. Still less valid for comparative purposes is the average cost per kilowatt-hour calculated by indiscriminately grouping revenues and consumption of all classes of service.

The example given below will show that within two municipalities, A and B, with identical rates and the same total energy consumption, the average costs per kilowatt-hour vary because of differences in load distribution. In Municipality C, where lower rates prevail, the load distribution results in a higher average cost per kilowatt-hour than in Municipality A. The difference lies in the relative quantities of energy sold for each class of service.

Class of service	Municipality A		Municipality B		Municipality C	
	Energy sales	Revenue	Energy sales	Revenue	Energy sales	Revenue
	'000 kwh	\$	'000 kwh	\$	'000 kwh	\$
Residence	1,000 @ 4c	40,000	5,000 @ 4c	200,000	3,000 @ 3c	90,000
Power	9,000 @ 1c	90,000	5,000 @ 1c	50,000	7,000 @ .75c	52,500
Total	10,000	130,000	10,000	250,000	10,000	142,500
Average cost per kwh		1.3c		2.5c		1.425c

Compared with domestic or commercial light service, industrial power service usually requires a smaller capital investment in distribution lines and equipment per unit of energy sold. In Municipality A the rates are 33 per cent higher than in Municipality C, but the predominance of the power service load in Municipality A reduces its average cost per kilowatt-hour by nearly 9 per cent.

The statistics in statement "D", therefore, should be used only as a measure of the general economy of service to the customers in the co-operating municipalities. Actual bills rendered to typical customers for similar service under closely comparable conditions will be the best basis for making comparisons. For these comparisons the actual schedules of statement "C" should be used in conjunction with typical loads.

For convenience, the municipalities represented in statement "D" have been listed alphabetically in four classifications: (i) cities over 10,000 in population, (ii) suburban areas densely populated and adjacent to cities, (iii) municipalities with population of 2,000 or more, and (iv) municipalities, including villages and suburban areas, whose population is under 2,000.

CUSTOMERS, REVENUE
for Domestic, Commercial light, and
during the
CITIES

MUNICIPALITY	Popula- tion	DOMESTIC SERVICE					
		Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Average monthly bill	Average cost per kwh
	No.	\$	kwh	No.	kwh	\$	cents
Belleville.....	19,423	225,645.52	27,911,338	5,294	439	3.55	.808
Brantford.....	36,602	343,712.94	36,192,909	9,760	309	2.93	.950
Chatham.....	21,473	200,246.03	13,357,157	5,672	196	2.94	1.499
Fort William.....	34,926	468,837.43	70,122,781	9,698	603	4.03	.669
Galt.....	19,362	210,847.11	20,728,951	5,496	314	3.20	1.017
Guelph.....	27,140	289,432.51	26,549,680	7,034	315	3.43	1.090
Hamilton.....	201,296	1,830,720.74	173,895,903	53,355	272	2.86	1.052
Kingston.....	42,437	427,149.64	49,797,787	9,982	416	3.57	.858
Kitchener.....	48,773	528,558.76	50,201,252	11,553	362	3.81	1.052
London.....	95,612	936,450.95	99,243,406	25,012	331	3.12	0.944
Niagara Falls.....	22,686	201,625.18	23,282,181	5,822	333	2.89	.866
North Bay.....	18,740	200,249.05	19,918,665	4,464	372	3.74	1.005
Oshawa.....	40,727	524,904.05	44,893,058	10,924	342	4.00	1.169
Ottawa.....	195,067	2,380,510.89	298,803,186	51,951	479	3.82	0.797
Owen Sound.....	16,898	183,616.41	15,741,612	4,540	289	3.37	1.166
Peterborough.....	37,192	440,033.06	46,172,291	9,964	386	3.68	0.953
Port Arthur.....	32,082	378,212.62	42,202,160	8,684	405	3.63	.896
St. Catharines.....	38,146	363,958.88	36,875,263	10,642	289	2.85	.987
St. Thomas.....	18,775	216,405.07	21,314,485	5,401	329	3.34	1.015
Sarnia.....	33,976	308,849.19	23,504,870	9,347	210	2.75	1.314
Stratford.....	18,878	238,209.76	23,648,687	5,251	375	3.78	1.007
Sudbury.....	50,222	507,739.62	44,372,135	10,800	342	3.92	1.144
Toronto.....	653,499	6,747,774.01	653,602,533	157,324	346	3.57	1.032
Waterloo.....	11,947	138,646.67	15,463,629	3,183	405	3.63	0.897
Welland.....	15,972	92,076.24	9,279,019	3,764	205	2.04	0.992
Windsor.....	123,849	1,168,441.23	101,667,752	29,947	283	3.25	1.149
Woodstock.....	15,466	192,574.60	17,658,880	4,474	329	3.59	1.091

VOTED AREAS adjacent to

Brantford Twp.....	16,318	176,754.46	12,404,914	3,138	329	4.69	1.425
East York Twp.....	62,301	723,116.55	68,586,144	16,736	342	3.60	1.054
Etobicoke Twp.....	52,635	748,543.39	83,473,878	16,548	420	3.77	0.897
London Twp.....	3,200	36,200.95	3,160,811	775	340	3.89	1.145
North York Twp.....	80,771	1,383,725.23	141,351,181	26,036	452	4.43	0.979
Scarborough Twp.....	56,161	580,160.21	47,112,685	14,263	275	3.39	1.231
Stamford Twp.....	18,225	192,866.05	19,753,267	4,395	374	3.66	.976
Toronto Twp.....	23,303	317,114.92	26,832,169	6,223	359	4.25	1.182
York Twp.....	96,770	988,849.59	103,552,267	26,737	323	3.08	.955

Statement D includes 324 municipalities in group 1, see page 36.

AND CONSUMPTION

Power service in Municipalities
year 1951

Population 10,000 or more

COMMERCIAL LIGHT SERVICE						POWER SERVICE			Total customers
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Average monthly bill	Ave- rage cost per kwh	Revenue	Cus- tomers	Average of customers' monthly loads billed	
\$	kwh	No.	kwh	\$	cents	\$	No.	kw	No.
126,237.91	10,674,227	804	1,106	13.08	1.183	101,519.79	145	4,413.82	6,243
167,141.72	14,331,298	1,549	791	8.99	1.166	548,287.45	268	21,857.00	11,577
208,710.17	12,376,617	1,010	1,021	17.22	1.686	253,360.04	172	8,769.86	6,854
202,551.93	19,701,267	1,414	1,161	11.94	1.028	445,838.13	206	18,575.80	11,318
101,984.71	7,166,051	653	915	13.01	1.423	256,020.81	175	10,546.50	6,234
115,496.09	8,655,521	840	859	11.46	1.334	269,081.57	182	10,669.60	8,056
956,140.96	84,647,524	6,720	1,050	11.86	1.130	4,155,096.54	1,308	160,217.30	61,383
254,027.32	22,456,942	1,228	1,524	17.24	1.131	252,989.28	199	9,830.75	11,409
273,014.14	18,537,398	1,354	1,141	16.80	1.473	800,031.69	373	26,294.10	13,280
430,642.76	36,999,459	2,491	1,239	14.41	1.164	769,355.56	423	31,441.25	27,926
142,717.03	12,253,850	982	1,040	12.11	1.165	177,712.06	154	7,526.20	6,958
107,679.61	8,229,123	808	849	11.11	1.309	82,748.29	103	2,683.27	5,375
186,565.53	11,062,224	1,049	879	14.82	1.687	637,197.17	184	18,863.01	12,157
1,918,865.43	149,172,262	7,428	1,674	21.53	1.286	745,617.14	982	31,357.60	60,361
102,681.47	6,716,899	659	849	12.98	1.529	129,423.68	123	5,232.90	5,322
184,096.95	12,986,505	1,250	866	12.27	1.418	376,798.35	200	14,306.69	11,414
200,628.37	16,571,860	1,132	1,220	14.77	1.211	479,436.81	149	20,850.80	9,965
211,952.94	16,262,440	1,398	969	12.63	1.303	680,040.72	287	26,863.60	12,327
99,012.27	8,443,706	680	1,035	12.13	1.173	141,108.09	101	5,647.33	6,182
158,404.78	10,329,741	1,005	857	13.14	1.533	400,367.12	112	9,967.22	10,464
86,765.73	6,201,915	692	747	10.45	1.399	103,226.65	145	4,331.90	6,088
248,600.91	15,731,752	1,352	970	15.32	1.580	84,090.14	154	2,743.49	12,306
5,112,071.74	373,984,549	27,055	1,152	15.75	1.367	*7,502,779.88	6,047	233,971.00	190,426
56,047.03	4,139,068	328	1,052	14.24	1.354	132,328.86	100	4,893.30	3,611
79,283.81	6,270,668	588	889	11.24	1.264	270,468.14	105	10,110.80	4,457
723,658.23	48,652,219	4,010	1,011	15.04	1.487	1,241,824.39	635	44,793.20	34,592
103,145.77	6,773,143	612	922	14.04	1.523	184,229.23	132	7,028.66	5,218

* Does not include street railway power.

cities and predominantly urban

26,667.61	1,254,243	129	810	17.23	2.126	21,211.29	18	613.10	3,285
88,557.81	6,851,758	754	909	11.75	1.292	136,238.79	108	5,102.60	17,598
138,447.86	11,118,769	974	951	11.85	1.245	208,634.44	177	8,098.60	17,699
4,639.13	268,411	26	860	14.87	1.728	1,450.52	4	47.00	805
226,050.41	14,235,717	1,437	826	13.11	1.588	244,434.14	207	8,540.50	27,680
144,057.81	9,923,642	1,019	812	11.78	1.452	168,713.65	164	5,599.60	15,446
46,429.48	2,678,862	305	732	12.69	1.733	42,760.55	39	1,674.60	4,739
64,498.60	3,909,785	459	710	11.71	1.650	113,486.41	102	3,785.81	6,784
240,104.41	16,908,255	1,826	772	10.96	1.420	326,192.21	315	12,443.66	28,878

CUSTOMERS, REVENUE
for Domestic, Commercial light, and
during the Year
MUNICIPALITIES

MUNICIPALITY	Popula- tion	DOMESTIC SERVICE					
		Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Average monthly bill	Av- erage cost per kwh
	No.	\$	kwh	No.	kwh	\$	cents
Acton.....	3,037	33,317.47	3,078,382	771	333	3.60	1.08
Alexandria.....	2,209	17,690.49	1,182,696	557	177	2.65	1.50
Alliston.....	2,038	24,924.72	1,887,134	562	280	1.69	1.30
Almonte.....	2,394	26,728.57	2,722,051	761	298	2.93	.98
Amherstburg.....	3,594	48,099.83	4,356,637	954	381	4.20	1.10
Arnprior.....	4,495	38,292.05	3,481,985	1,139	255	2.80	1.10
Aurora.....	3,363	48,782.74	4,805,409	1,015	395	4.01	1.02
Aylmer.....	3,557	31,645.00	3,463,792	988	292	2.67	.91
Barrie.....	13,318	158,818.90	16,982,983	3,450	410	3.84	.94
Blenheim.....	2,436	17,325.90	1,181,385	726	136	1.99	1.46
Bowmanville.....	5,318	70,605.47	5,894,433	1,659	296	3.55	1.20
Brampton.....	8,301	105,615.07	10,168,335	2,266	374	3.88	1.04
Brighton.....	2,027	23,346.41	1,733,425	618	234	3.15	1.35
Brockville.....	12,030	121,277.01	12,838,560	3,485	307	2.90	0.94
Burlington.....	6,314	91,212.61	8,085,618	1,903	354	3.99	1.13
Carleton Place.....	4,685	41,897.80	3,840,967	1,302	246	2.68	1.09
Clinton.....	2,495	31,919.23	3,199,989	761	350	3.50	1.00
Cobourg.....	7,818	91,100.26	7,773,851	2,061	314	3.68	1.17
Collingwood.....	7,367	67,647.51	5,494,551	2,085	220	2.70	1.23
Delhi.....	2,557	27,584.86	2,053,967	822	208	2.80	1.35
Dresden.....	2,070	15,504.38	861,722	602	119	2.15	1.81
Dundas.....	6,787	64,562.99	5,283,698	2,232	197	2.41	1.22
Dunnville.....	4,384	26,219.07	1,963,376	1,282	128	1.70	1.33
Durham.....	2,293	17,967.06	1,155,034	562	164	2.66	1.55
Elmira.....	2,547	32,059.64	2,854,115	710	335	3.76	1.12
Essex.....	2,782	23,343.29	1,696,240	784	180	2.48	1.37
Exeter.....	2,559	37,413.42	3,312,695	807	342	3.86	1.13
Fergus.....	3,411	42,838.86	3,519,881	974	301	3.67	1.22
Forest Hill.....	16,374	286,038.43	32,130,185	4,559	587	5.23	.89
Georgetown.....	3,503	51,270.79	4,817,388	1,184	339	3.61	1.06
Goderich.....	4,963	71,101.36	5,377,830	1,624	276	3.65	1.32
Gravenhurst.....	2,901	30,212.30	3,269,953	971	281	2.59	0.92
Grimsby.....	2,685	24,937.84	2,693,583	870	258	2.39	.93
Hanover.....	3,843	45,319.61	3,805,208	1,061	299	3.61	1.19
Hespeler.....	3,799	39,770.14	3,167,142	1,017	260	3.26	1.25
Humberstone.....	3,722	21,748.47	1,590,020	982	135	1.85	1.37
Huntsville.....	3,192	33,855.06	3,370,204	881	319	3.20	1.00
Ingersoll.....	6,533	65,329.91	5,203,160	1,853	234	2.94	1.26
Kincardine.....	2,665	29,935.02	2,295,713	868	220	2.87	1.30
Kingsville.....	2,552	28,749.76	2,254,541	851	221	2.82	1.28
Leamington.....	7,541	60,430.86	5,292,739	2,134	206	2.36	1.14
Lindsay.....	9,504	109,779.35	9,799,229	2,719	300	3.36	1.12
Listowel.....	3,443	40,253.40	3,494,097	1,047	278	3.20	1.15
Long Branch.....	8,520	83,549.44	9,609,073	2,280	351	3.05	.87
McGarry Imp. Dist.....	2,128	21,534.56	1,168,361	309	315	5.81	1.84

AND CONSUMPTION

Power service in Municipalities

1951—(Continued)

population 2,000 or more

COMMERCIAL LIGHT SERVICE						POWER SERVICE			
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Average monthly bill	Average cost per kwh	Revenue	Cus- tomers	Average of customers' monthly loads billed	Total customers
\$	kwh	No.	kwh	\$	cents	\$	No.	kw	No.
14,202.52	935,750	118	661	10.03	1.52	62,705.81	25	2,247.90	914
14,407.81	717,134	144	415	8.34	2.01	7,875.71	16	198.33	717
14,198.98	693,945	145	399	8.16	2.00	12,153.99	27	465.20	734
10,323.22	613,008	123	415	6.99	1.68	22,364.77	26	814.02	910
19,934.36	1,547,923	183	705	9.08	1.29	14,801.72	22	523.99	1,159
22,303.02	1,324,781	171	646	10.87	1.68	32,590.02	33	1,355.80	1,343
18,709.94	1,635,613	156	874	9.99	1.14	32,628.00	29	1,230.40	1,200
21,676.58	1,902,760	218	727	8.29	1.14	28,878.73	30	1,134.20	1,236
88,874.62	6,554,776	567	963	13.06	1.35	71,384.65	84	2,859.60	4,101
19,356.80	1,212,761	165	613	9.78	1.59	16,414.49	20	505.70	911
24,586.52	1,398,207	214	544	9.57	1.76	84,050.92	32	2,661.74	1,905
41,921.80	2,813,549	329	713	10.62	1.49	45,347.58	73	1,807.80	2,668
11,086.73	578,897	145	333	6.37	1.92	6,027.96	10	235.00	773
51,919.20	4,511,827	456	825	9.49	1.15	161,196.08	89	5,827.85	4,030
37,878.91	2,349,636	221	886	14.28	1.61	29,412.78	33	804.10	2,157
18,750.53	1,134,205	219	432	7.13	1.65	37,466.62	22	1,442.00	1,543
14,486.76	913,263	161	473	7.50	1.59	13,422.10	25	459.10	947
41,923.08	2,686,760	281	797	12.43	1.56	61,883.74	59	2,117.38	2,401
32,360.40	2,059,902	283	606	9.53	1.57	58,584.15	64	2,480.10	2,432
25,157.88	1,250,803	222	470	9.44	2.01	11,387.98	29	388.60	1,073
15,486.59	861,606	156	460	8.27	1.80	17,636.37	21	579.61	779
32,657.03	2,036,099	244	695	11.15	1.60	66,787.85	50	2,775.20	2,526
27,061.47	1,978,984	273	604	8.26	1.37	34,775.83	33	1,331.40	1,588
13,900.90	726,934	126	481	9.52	1.91	7,962.86	18	246.50	706
21,916.91	1,303,990	145	749	12.60	1.68	45,323.33	27	1,318.90	882
20,060.64	1,297,406	162	667	10.32	1.55	14,622.86	27	590.59	973
17,712.90	1,082,150	160	564	9.23	1.64	11,166.03	25	535.62	992
17,468.91	1,207,724	133	757	10.95	1.45	33,029.05	18	1,227.60	1,125
65,978.23	4,654,707	397	977	13.85	1.42	7,030.51	44	310.50	5,000
17,994.46	1,173,491	171	572	8.77	1.53	54,194.16	32	1,844.60	1,387
34,840.12	1,917,589	301	531	9.65	1.82	35,461.99	48	1,162.00	1,973
17,894.49	1,645,804	173	793	8.62	1.09	20,634.06	22	841.10	1,166
17,371.28	1,320,618	161	683	8.99	1.32	13,548.94	20	520.30	1,051
18,267.38	1,056,992	179	492	8.50	1.73	41,876.98	33	1,499.42	1,273
14,363.70	793,533	117	565	10.23	1.81	106,577.90	35	3,280.40	1,169
11,113.56	733,017	130	470	7.12	1.51	9,021.53	16	360.90	1,128
29,373.21	2,034,540	183	926	13.38	1.44	21,754.28	24	826.10	1,088
35,994.21	2,337,880	265	735	11.32	1.54	79,453.67	49	2,402.88	2,167
15,883.89	774,799	154	419	8.60	2.05	22,996.75	24	658.90	1,046
19,556.40	1,128,468	195	482	8.36	1.73	7,803.11	24	330.48	1,070
35,054.86	2,574,345	389	551	7.50	1.36	52,051.89	53	1,735.30	2,576
64,044.25	3,672,891	437	700	12.21	1.74	70,325.35	79	2,670.49	3,235
27,428.12	1,562,004	188	692	12.16	1.76	28,557.42	35	1,054.90	1,270
23,704.44	2,094,703	231	756	8.55	1.13	36,889.66	28	1,542.50	2,539
9,028.61	738,419	60	1,026	12.54	1.22	788.42	1	23.62	370

CUSTOMERS, REVENUE
for Domestic, Commercial light, and
during the Year
MUNICIPALITIES

MUNICIPALITY	Popula- tion	DOMESTIC SERVICE					
		Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Average monthly bill	Av- erage cost per kwh
	No.	\$	kwh	No.	kwh	\$	cents
Meaford.....	3,169	32,161.42	2,498,861	1,019	204	2.63	1.29
Merritton.....	4,783	51,088.26	4,747,011	1,276	310	3.34	1.08
Midland.....	7,257	67,555.00	6,721,070	2,064	273	2.71	1.00
Milton.....	2,460	29,601.57	2,616,347	723	302	3.41	1.13
Mimico.....	11,503	136,232.93	12,152,175	3,151	321	3.60	1.12
Mount Forest.....	2,170	21,846.35	1,639,970	629	217	2.89	1.33
Napanee.....	3,803	50,260.17	4,484,795	1,128	331	3.71	1.12
Newmarket.....	5,244	58,997.22	6,017,050	1,550	323	3.17	.98
New Toronto.....	11,072	101,252.52	10,400,279	2,430	357	3.47	.97
Niagara.....	2,160	37,932.32	3,822,187	868	367	3.64	.99
Oakville.....	6,691	71,419.35	6,077,006	1,890	268	3.15	1.20
Orangeville.....	3,302	34,511.36	2,801,580	929	251	3.09	1.23
Paris.....	5,274	47,777.60	4,454,926	1,361	273	2.93	1.07
Parry Sound.....	5,215	54,604.75	3,605,010	1,343	223	3.39	1.50
Penetanguishene.....	4,964	28,224.83	2,351,854	1,038	189	2.26	1.20
Perth.....	4,920	51,891.77	4,313,300	1,414	254	3.06	1.20
Petrolia.....	3,118	24,840.53	1,523,320	901	141	2.30	1.63
Pictou.....	4,103	45,309.72	4,943,587	1,304	316	2.90	0.92
Port Colborne.....	8,300	55,328.71	4,188,710	2,057	170	2.24	1.32
Port Credit.....	3,651	51,550.38	5,369,366	1,042	429	4.12	.96
Port Dalhousie.....	2,462	42,815.80	4,200,078	914	383	3.90	1.02
Port Dover.....	2,385	21,341.36	1,726,168	1,020	141	1.74	1.23
Port Hope.....	6,327	82,449.61	7,765,186	1,923	337	3.57	1.06
Prescott.....	3,449	43,454.19	3,198,849	944	282	3.84	1.36
Preston.....	7,518	76,333.84	6,702,882	1,951	286	3.26	1.14
Renfrew.....	7,368	62,572.51	4,702,189	1,830	214	2.85	1.33
Richmond Hill.....	2,228	30,805.83	3,135,717	668	391	3.84	.98
Ridgetown.....	2,275	16,170.81	1,153,980	730	132	1.85	1.40
Riverside.....	9,535	123,872.10	9,349,047	2,794	279	3.69	1.32
St. Marys.....	4,112	65,369.01	4,948,725	1,219	338	4.47	1.32
Seaforth.....	2,121	26,740.16	1,887,990	629	250	3.54	1.42
Simcoe.....	7,085	50,092.30	4,458,613	2,062	180	2.02	1.12
Sioux Lookout.....	2,381	35,797.89	1,987,490	674	246	4.42	1.80
Smiths Falls.....	8,339	99,977.34	9,196,188	2,418	317	3.45	1.09
Strathroy.....	3,688	50,095.22	4,316,377	1,137	316	3.67	1.16
Sturgeon Falls.....	4,953	*30,929.27	1,446,108	1,052	.....	.....	.....
Swansea.....	8,080	122,066.54	12,547,600	2,464	424	4.13	.97
Tecumseh.....	3,497	32,077.04	1,918,056	967	165	2.76	1.67
Thorold.....	6,465	44,686.37	4,467,873	1,668	223	2.23	1.00
Tilbury.....	2,848	20,037.46	1,563,050	746	175	2.24	1.28
Tillsonburg.....	5,202	46,999.60	3,736,125	1,610	193	2.43	1.26
Trenton.....	9,993	98,744.51	11,592,542	2,940	329	2.80	0.85
Walkerton.....	3,313	36,974.26	2,801,227	892	262	3.45	1.32
Wallaceburg.....	7,352	55,179.14	4,308,901	2,084	172	2.21	1.28
Weston.....	8,088	113,576.47	12,194,696	2,204	461	4.29	.93
Whitby.....	7,268	72,657.03	6,009,652	1,418	354	4.27	1.21
Wiaarton.....	2,042	16,098.82	1,273,440	557	191	2.41	1.26
Wingham.....	2,611	35,394.52	2,851,691	763	341	3.87	1.24

* 9 months.

AND CONSUMPTION

Power service in Municipalities

1951—(Continued)

population 2,000 or more—Concluded

COMMERCIAL LIGHT SERVICE						POWER SERVICE			
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Average monthly bill	Average cost per kwh	Revenue	Cus- tomers	Average of customers' monthly loads billed	Total customers
\$	kwh	No.	kwh	\$	cents	\$	No.	kw	No.
19,487.85	1,121,014	190	492	8.55	1.74	21,175.04	27	726.10	1,236
12,501.10	641,211	95	562	10.97	1.95	328,789.19	22	10,590.80	1,393
29,582.57	2,203,585	244	752	10.10	1.34	100,425.45	59	4,456.90	2,367
14,638.43	890,261	154	482	7.92	1.64	42,689.71	23	1,260.58	900
34,640.67	2,347,729	251	779	11.50	1.48	34,005.66	45	1,187.70	3,447
15,412.46	904,055	159	473	8.07	1.72	12,082.49	21	418.60	809
35,203.71	2,005,409	240	696	12.22	1.76	22,639.27	31	818.73	1,399
30,842.47	1,767,889	250	589	10.28	1.74	37,450.82	43	1,302.90	1,843
52,262.81	4,146,890	296	1,167	14.71	1.26	329,987.79	68	11,110.30	2,794
11,986.08	818,847	112	609	8.92	1.46	3,131.58	13	120.10	993
53,535.96	2,783,790	274	847	16.28	1.90	85,504.06	78	3,456.90	2,242
23,798.38	1,495,475	225	554	8.81	1.59	9,899.22	32	516.60	1,186
16,574.74	1,155,107	205	469	6.74	1.43	36,581.82	32	1,724.20	1,598
35,211.33	1,608,855	247	543	11.88	2.20	14,800.29	20	444.20	1,610
16,825.06	1,114,557	156	595	8.98	1.51	25,720.21	19	905.70	1,213
28,057.41	1,807,232	238	633	9.82	1.55	24,332.76	36	1,043.42	1,688
17,832.80	950,038	183	433	8.12	1.88	27,978.25	60	892.67	1,144
28,830.89	2,317,786	263	734	9.14	1.24	18,046.72	37	867.30	1,604
40,609.18	2,506,474	292	715	11.59	1.62	39,222.99	35	1,282.30	2,384
19,445.26	1,346,026	139	807	11.66	1.44	13,237.30	21	394.80	1,202
8,627.21	604,546	84	600	8.56	1.43	9,076.69	12	372.00	1,010
11,794.39	835,110	177	393	5.55	1.41	9,143.69	22	348.90	1,219
35,051.29	2,305,831	275	699	10.62	1.52	87,298.69	46	2,842.36	2,244
22,934.61	1,150,530	184	521	10.39	1.99	19,165.59	28	832.50	1,156
32,027.63	2,904,035	262	924	10.19	1.10	95,449.00	65	3,928.30	2,278
28,319.24	1,824,276	266	572	8.87	1.55	65,050.95	73	2,380.17	2,169
11,681.20	734,806	115	532	8.46	1.60	4,210.62	19	254.50	802
15,436.32	1,047,658	163	536	7.89	1.47	10,333.46	28	420.83	921
18,177.08	1,156,505	150	642	10.09	1.57	12,859.04	17	393.14	2,961
23,989.25	1,085,386	201	450	9.95	2.21	38,629.15	44	1,198.00	1,464
19,300.64	886,410	120	616	13.40	2.18	19,209.64	22	746.80	771
55,133.03	4,407,019	468	785	9.82	1.25	47,616.91	74	1,918.10	2,604
21,161.67	753,330	97	647	18.18	2.80	6,811.48	13	154.40	784
50,223.21	3,590,916	354	845	11.82	1.40	41,079.91	48	1,655.95	2,820
25,732.11	1,556,502	220	594	9.82	1.65	29,148.28	43	1,110.69	1,400
27,046.35	1,073,781	171	.....	.....	.....	2,322.89	14	.....	1,237
28,257.60	1,738,862	140	1,035	16.82	1.63	38,193.86	29	1,395.00	2,633
11,770.33	624,925	93	560	10.55	1.88	10,062.33	8	281.77	1,068
18,084.78	1,603,010	191	700	7.89	1.12	88,891.27	36	2,973.90	1,895
15,071.46	941,370	161	487	7.80	1.60	29,247.93	22	1,289.63	929
43,511.44	2,719,437	345	657	10.51	1.60	39,207.14	50	1,452.65	2,005
38,381.01	3,232,861	321	839	9.96	1.19	116,568.28	65	3,842.00	3,326
25,388.32	1,307,196	182	599	11.62	1.94	19,312.76	19	541.30	1,093
38,929.77	2,790,166	374	622	8.67	1.39	218,787.79	72	7,508.56	2,530
44,285.75	3,166,704	269	981	13.72	1.40	120,075.33	55	4,211.70	2,528
29,589.65	1,744,642	211	686	11.69	1.70	31,923.30	35	1,030.64	1,664
14,290.91	774,552	127	508	9.31	1.84	13,596.38	23	277.10	707
20,878.61	1,107,118	165	559	10.54	1.89	27,700.00	27	796.80	955

CUSTOMERS, REVENUE
for Domestic, Commercial light, and
during the Year
MUNICIPALITIES

MUNICIPALITY	Popula- tion	DOMESTIC SERVICE					
		Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Average monthly bill	Av- erage cost per kwh
	No.	\$	kwh	No.	kwh	\$	cents
Agincourt.....	1,000	14,521.89	1,358,845	270	419	4.48	1.10
Ailsa Craig.....	497	5,657.57	411,485	173	198	2.73	1.38
Alvinston.....	682	5,116.98	234,450	249	78	1.71	2.18
Ancaster Twp.....	V.A.	34,484.38	2,628,157	580	378	4.95	1.31
Apple Hill.....	464	2,197.67	96,950	83	100	2.21	2.27
Arkona.....	338	5,210.73	314,369	137	191	3.17	1.66
Arthur.....	1,060	11,645.05	651,014	314	173	3.09	1.80
Athens.....	841	9,441.50	374,422	247	126	3.19	2.52
Ayr.....	872	11,057.94	811,630	268	252	3.44	1.37
Baden.....	700	8,932.75	671,240	193	290	3.86	1.33
Bancroft.....	1,308	14,457.39	407,037	333	102	3.62	3.55
Barry's Bay.....	1,294	9,041.50	187,373	248	63	3.04	4.83
Bath.....	429	5,760.10	240,780	119	169	4.03	2.39
Beachville.....	660	8,040.59	685,578	213	268	3.15	1.17
Beamsville.....	1,728	20,381.73	2,488,957	524	396	3.24	.82
Beaverton.....	967	14,105.40	1,025,547	440	194	2.67	1.40
Beeton.....	579	6,331.31	361,732	180	167	2.93	1.80
Belle River.....	1,411	13,633.71	776,301	480	135	2.37	1.76
Bloomfield.....	653	5,833.47	456,531	209	182	2.32	1.28
Blyth.....	660	7,489.98	513,510	233	184	2.68	1.46
Bobcaygeon.....	1,139	17,305.49	661,642	448	123	3.22	2.62
Bolton.....	852	10,365.42	923,859	244	316	3.54	1.10
Bothwell.....	701	4,826.40	372,710	215	145	1.87	1.29
Bradford.....	1,576	17,270.89	1,196,147	410	243	3.51	1.40
Braeside.....	451	3,047.87	149,440	131	95	1.94	2.04
Brechin.....	270	2,369.69	107,448	60	149	3.29	2.20
Bridgeport.....	1,138	11,834.68	916,538	299	255	3.30	1.29
Brigden.....	450	3,292.63	188,940	141	112	1.95	1.74
Brussels.....	817	9,380.86	649,710	286	189	2.73	1.44
Burford.....	884	12,567.28	1,071,799	283	316	3.70	1.17
Burgessville.....	194	2,909.29	188,115	68	231	3.57	1.55
Burks Falls.....	852	8,170.12	258,430	232	93	2.93	3.20
Cache Bay.....	864	5,213.63	110,100	176	52	2.47	4.74
Caledonia.....	1,685	13,943.96	957,874	524	152	2.22	1.46
Campbellville.....	260	3,218.68	208,820	67	260	4.00	1.50
Cannington.....	874	10,487.01	723,520	311	194	2.81	1.45
Capreol.....	1,992	26,159.04	1,939,130	549	294	3.97	1.35
Cardinal.....	1,811	18,136.38	1,261,935	473	222	3.20	1.44
Cayuga.....	716	6,523.03	349,963	220	133	2.47	1.86
Chatsworth.....	408	4,337.13	325,670	129	210	2.80	1.33

AND CONSUMPTION

Power service in Municipalities

1951—(Continued)

Less than 2,000 population

COMMERCIAL LIGHT SERVICE						POWER SERVICE			Total customers
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Average monthly bill	Average cost per kwh	Revenue	Cus- tomers	Average of customers' monthly loads billed	
\$	kwh	No.	kwh	\$	cents	\$	No.	kw	No.
4,371.71	206,218	40	430	9.11	2.10	8,186.36	8	236.30	318
2,556.47	105,038	42	208	5.07	2.44	2,669.96	4	102.23	219
4,054.78	181,482	59	256	5.73	2.23	1,821.90	7	59.26	315
8,779.14	351,832	52	564	14.07	2.49	2,070.31	10	79.90	642
1,154.96	45,392	22	172	4.37	2.54	334.15	1	16.00	106
2,803.06	107,827	40	225	5.84	2.60	275.40	2	8.75	179
10,139.44	372,182	92	337	9.18	2.70	3,414.23	11	138.90	417
4,588.36	158,510	55	240	6.95	2.89	734.28	2	25.67	304
4,968.56	236,004	51	386	8.12	2.10	3,847.22	8	133.40	327
3,429.31	209,482	34	513	8.41	1.64	13,047.61	3	456.20	230
13,570.57	312,740	101	258	11.19	4.34	2,031.09	6	61.48	440
5,693.98	129,080	57	189	8.32	4.41	417.28	3	29.30	308
1,711.22	72,310	15	402	9.50	2.36	700.30	1	19.40	135
1,040.84	68,650	28	204	3.10	1.52	27,847.91	3	821.48	244
7,559.95	532,688	90	493	7.00	1.40	3,293.06	11	153.60	625
6,478.96	395,353	87	379	6.21	1.60	4,500.99	12	286.60	539
4,614.77	193,705	42	384	9.16	2.40	802.58	6	30.70	228
7,786.59	421,938	75	469	8.65	1.85	2,613.22	6	70.32	561
4,586.68	231,435	44	438	8.68	1.98	2,150.50	7	78.95	260
4,052.12	201,570	59	285	5.72	2.01	6,243.11	6	202.20	298
10,323.50	333,418	99	280	8.69	3.10	813.17	3	21.51	550
4,992.14	252,395	58	363	7.17	2.00	3,976.01	15	158.40	317
3,981.97	281,290	65	361	5.10	1.41	2,108.72	8	110.82	288
15,426.91	671,290	103	543	12.48	2.30	15,303.42	23	485.40	536
670.02	26,039	10	217	5.58	2.57	6,909.75	3	217.60	144
1,990.67	61,799	23	224	7.21	3.20	882.37	1	26.10	84
3,701.29	200,883	30	558	10.28	1.84	2,196.19	5	93.10	334
2,868.86	121,270	45	225	5.31	2.37	4,423.38	6	140.00	192
5,152.51	299,190	70	356	6.13	1.72	4,631.47	9	130.50	365
4,550.31	258,437	53	406	7.15	1.76	3,621.92	7	155.10	343
1,238.38	60,180	22	230	4.73	2.06	1,453.57	3	51.73	93
8,705.31	250,380	67	311	10.83	3.50	747.61	2	18.65	301
2,690.47	48,908	24	170	9.34	5.50	843.99	1	32.40	201
10,603.06	686,005	117	489	7.55	1.54	3,772.59	11	116.60	652
732.05	30,570	12	212	5.08	2.40	438.21	1	7.80	80
4,948.35	213,336	71	250	5.81	2.32	4,139.07	12	171.22	394
8,183.82	456,040	79	481	8.63	1.79	9,600.22	2	222.27	630
5,536.82	288,395	64	376	7.21	1.92	934.48	3	26.43	540
6,865.83	319,572	71	375	8.06	2.15	4,261.76	11	143.57	302
3,965.06	190,950	44	361	7.51	2.08	1,054.18	1	28.87	174

CUSTOMERS, REVENUE
for Domestic, Commercial light, and
during the Year
MUNICIPALITIES

MUNICIPALITY	Popula- tion	DOMESTIC SERVICE					
		Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Average monthly bill	Av- erage cost per kwh
	No.	\$	kwh	No.	kwh	\$	cents
Chesley	1,715	20,442.73	1,630,232	545	249	3.13	1.25
Chesterville	1,178	9,253.01	743,731	308	201	2.50	1.24
Chippawa	1,676	15,659.29	1,711,980	479	298	2.72	.90
Clifford	485	5,982.52	441,749	156	236	3.20	1.36
Cobden	796	6,842.85	526,533	249	176	2.29	1.30
Colborne	1,127	14,864.55	1,111,036	357	259	3.47	1.34
Coldwater	620	6,335.81	461,130	180	213	2.93	1.40
Comber	545	3,926.15	210,110	156	112	2.10	1.88
Cookstown	421	5,110.52	294,825	149	165	2.86	1.70
Cottam	520	5,006.08	330,420	175	157	2.38	1.52
Courtright	545	3,289.73	167,700	142	98	1.93	1.97
Creemore	738	7,168.10	495,180	222	186	2.69	1.40
Dashwood	399	5,914.59	341,560	127	224	3.88	1.73
Delaware	347	4,503.23	389,901	96	339	3.91	1.15
Deseronto	1,517	17,801.59	1,076,200	494	182	3.00	1.65
Dorchester	557	6,016.74	460,195	198	194	2.53	1.30
Drayton	518	7,474.45	388,571	196	165	3.18	1.93
Drumbo	334	4,775.27	324,839	120	226	3.32	1.47
Dublin	203	3,039.30	169,270	64	220	3.96	1.80
Dundalk	811	7,118.57	471,490	249	158	2.38	1.50
Dutton	863	5,427.02	382,980	254	126	1.78	1.42
Elmvale	821	8,124.69	641,144	241	222	2.81	1.30
Elmwood	V.A.	2,606.21	159,850	100	133	2.17	1.63
Elora	1,365	16,296.80	1,166,840	418	233	3.25	1.39
Embro	448	7,561.40	568,972	154	308	4.09	1.33
Erieau	404	8,738.45	560,720	268	174	2.72	1.56
Erie Beach	59	2,858.87	69,191	119	48	2.00	4.17
Erin	638	9,290.52	419,475	242	144	3.20	2.20
Finch	371	4,334.29	307,225	126	203	2.87	1.41
Flesherton	484	4,474.65	307,690	152	169	2.45	1.45
Fonthill	1,467	18,258.67	1,688,243	417	337	3.65	1.10
Forest	1,793	26,400.80	2,114,840	595	296	3.70	1.25
Frankford	1,398	15,258.04	781,990	360	181	3.53	1.95
Glencoe	976	7,191.85	414,288	315	110	1.90	1.73
Grand Valley	638	6,652.79	467,120	230	169	2.41	1.40
Granton	263	3,918.14	215,579	90	200	3.63	1.82
Hagersville	1,718	13,211.46	925,200	492	157	2.24	1.43
Harriston	1,555	16,918.89	1,355,565	455	243	3.03	1.25
Harrow	1,532	25,628.80	1,876,283	446	351	4.79	1.36
Hastings	825	8,795.89	496,183	326	127	2.25	1.77

AND CONSUMPTION

Power service in Municipalities

1951—(Continued)

Less than 2,000 population—Continued

COMMERCIAL LIGHT SERVICE						POWER SERVICE			Total customers
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Average monthly bill	Average cost per kwh.	Revenue	Cus- tomers	Average of customers' monthly loads billed	
\$	kwh	No.	kwh	\$	cents	\$	No.	kw	No.
8,875.08	490,270	98	417	7.55	1.81	13,896.89	27	538.50	370
6,337.57	381,550	74	430	7.14	1.66	12,505.34	6	409.16	388
3,818.71	288,905	60	401	5.30	1.30	1,041.15	3	32.50	542
4,495.48	226,374	43	439	8.71	1.98	1,186.70	3	30.25	202
4,890.50	212,658	65	373	6.19	1.27	5,316.11	6	192.04	329
7,801.80	339,571	78	363	8.33	2.30	2,084.11	7	60.71	442
3,607.51	188,362	51	308	5.89	1.90	2,774.69	3	82.48	234
3,691.35	181,538	59	256	5.21	2.04	5,131.60	7	169.69	322
2,539.11	79,625	39	170	5.42	3.20	1,515.96	3	53.20	191
2,607.88	131,750	32	343	6.79	1.98	1,133.49	6	43.87	213
2,056.71	81,461	27	251	6.35	2.53	641.34	1	12.50	170
3,751.09	177,720	58	255	5.39	2.10	1,316.74	4	68.70	284
2,284.92	88,040	27	272	7.05	2.59	1,605.59	4	54.93	158
2,039.76	91,582	19	402	8.95	2.23				115
5,922.75	248,175	60	345	8.23	2.39	9,660.23	15	270.86	569
1,869.16	82,762	35	197	4.45	1.26	2,319.23	3	81.97	296
4,294.42	134,805	56	201	6.39	3.18	2,128.37	5	79.90	257
2,459.36	102,340	34	231	6.03	1.40	1,410.15	2	47.90	156
2,113.85	88,585	34	217	5.18	2.39	1,964.43	2	63.10	100
5,652.34	248,352	81	255	5.81	2.30	4,621.96	8	191.10	254
3,911.86	213,928	64	278	5.09	1.83	4,291.92	10	154.71	328
5,052.91	306,654	69	370	6.10	1.70	4,705.63	10	159.60	330
1,669.77	70,428	21	379	6.63	2.37	2,758.93	3	92.60	244
7,222.21	364,220	72	422	8.36	1.98	11,107.97	8	405.54	428
2,004.68	96,230	42	191	3.98	1.08	3,067.28	4	71.66	290
3,427.37	180,005	20	750	14.28	1.90	4,909.95	4	120.70	292
304.06	7,175	5	120	5.07	4.23				124
5,297.01	189,793	61	259	7.24	2.80	666.21	2	14.10	396
3,724.89	115,120	34	282	6.68	2.37	2,660.74	6	127.79	186
3,411.31	161,656	53	254	5.36	2.11	589.74	2	37.70	207
4,331.13	257,791	55	390	6.56	1.70	1,835.87	7	66.40	479
15,247.44	743,695	146	425	8.70	2.05	8,496.55	22	286.59	763
6,656.48	244,799	74	276	7.50	2.72	1,317.86	6	60.71	440
10,071.11	483,867	94	429	8.93	2.08	3,772.92	11	150.32	420
3,872.74	189,890	63	251	5.12	2.00	4,387.52	11	158.30	304
1,278.28	35,818	26	115	4.10	3.57	194.57	1	7.46	117
11,865.26	699,472	142	410	6.96	1.70	29,007.96	23	1,192.80	657
10,402.99	533,408	118	377	7.35	1.95	13,738.11	16	449.79	543
14,500.10	703,603	114	514	10.60	2.06	9,392.98	8	294.61	568
5,372.97	319,384	61	300	7.34	2.45	444.04	4	16.21	391

CUSTOMERS, REVENUE
for Domestic, Commercial light, and
during the Year

MUNICIPALITIES

MUNICIPALITY	Popula- tion	DOMESTIC SERVICE					
		Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Average monthly bill	Average cost per kwh
	No.	\$	kwh	No.	kwh	\$	cents
Havelock.....	1,254	11,993.24	580,474	339	143	2.95	2.07
Hensall.....	676	8,976.11	661,860	236	234	2.17	1.36
Highgate.....	351	2,645.94	137,450	117	98	1.89	1.93
Holstein.....	179	1,895.80	124,240	73	141	2.16	1.53
Iroquois.....	1,067	13,412.16	1,103,709	356	258	3.14	1.21
Jarvis.....	645	4,180.47	252,170	177	119	1.97	1.66
Kemptville.....	1,545	18,897.54	1,548,765	478	270	3.29	1.22
Kirkfield.....	191	1,955.22	79,479	56	118	2.91	2.50
Lakefield.....	1,760	16,711.72	1,378,356	487	236	2.86	1.21
Lambeth.....	1,080	16,928.07	1,220,254	370	275	3.81	1.39
Lanark.....	775	6,316.84	323,469	235	115	2.24	1.95
Lancaster.....	568	3,816.18	241,863	138	146	2.30	1.58
Larder Lake Twp.....	V.A.	21,610.89	948,071	422	187	4.27	2.28
La Salle.....	1,892	30,908.90	1,828,974	501	304	6.17	2.03
Latchford.....	504	3,051.38	75,958	108	59	2.35	4.02
Lucan.....	875	11,912.15	964,091	249	323	3.99	1.24
Lucknow.....	857	9,346.79	679,578	343	165	2.27	1.38
Lynden.....	434	5,334.74	424,572	132	268	3.37	1.26
Madoc.....	1,291	13,423.42	872,420	393	185	2.85	1.54
Magnetawan.....	*221	849.30	13,118	66			
Markdale.....	982	7,469.93	661,369	273	201	2.28	1.11
Markham.....	1,715	20,365.41	1,621,909	487	278	3.48	1.30
Marmora.....	1,117	9,174.07	519,750	308	141	2.48	1.77
Martintown.....	125	1,989.88	140,450	74	158	2.24	1.41
Maxville.....	776	6,745.25	477,849	206	193	2.73	1.41
Merlin.....	635	4,023.70	228,803	153	125	2.19	1.75
Merrickville.....	950	9,502.48	410,720	258	133	3.07	2.31
Mildmay.....	850	7,908.57	634,287	230	229	2.87	1.25
Millbrook.....	739	9,394.44	562,240	251	187	3.12	1.67
Milverton.....	1,062	12,482.74	894,299	316	236	3.29	1.39
Mitchell.....	1,951	29,765.50	2,220,354	610	303	4.07	1.34
Moorefield.....	278	2,622.90	165,237	84	164	2.60	1.59
Morrisburg.....	1,876	19,158.65	1,454,817	522	232	3.06	1.32
Mt. Brydges.....	637	5,277.62	438,698	210	174	2.09	1.20
Neustadt.....	462	3,825.57	224,656	148	126	2.15	1.70
Newboro.....	309	3,685.37	116,342	83	117	3.70	3.16
Newburgh.....	453	4,903.05	239,655	126	159	3.24	2.05
Newbury.....	289	3,257.49	184,738	94	164	2.89	1.76
Newcastle.....	895	19,730.34	865,232	286	252	3.13	1.24
New Hamburg.....	1,726	21,022.24	1,680,606	464	302	3.78	1.25

* 5 months.

AND CONSUMPTION

Power service in Municipalities

1951—(Continued)

Less than 2,000 population—Continued

COMMERCIAL LIGHT SERVICE						POWER SERVICE			Total customers
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Average monthly bill	Average cost per kwh	Revenue	Cus- tomers	Average of customers' monthly loads billed	
\$	kwh	No.	kwh	\$	cents	\$	No.	kw	No.
6,389.96	236,119	67	294	7.95	2.71	2,036.77	2	51.55	408
5,335.94	218,010	61	298	7.29	2.45	6,759.52	18	264.80	315
1,353.97	68,670	29	197	3.89	1.97	2,401.49	7	114.76	153
557.34	24,920	18	115	2.60	2.23	768.19	1	13.90	92
5,107.22	330,281	64	430	6.65	1.55	2,361.24	7	70.45	427
3,818.44	210,934	46	382	6.92	1.81	4,287.29	5	122.8	228
9,538.85	532,038	95	467	8.37	1.79	15,191.85	14	481.39	587
2,034.05	55,455	26	178	6.52	2.70				82
11,912.06	716,478	97	616	10.23	1.66	18,396.08	11	673.51	595
2,517.56	132,346	33	334	6.36	1.90	1,733.58	7	39.37	410
4,378.31	174,963	47	310	7.76	2.50	598.04	2	26.96	234
2,566.27	143,952	32	375	6.68	1.78				170
8,431.41	561,604	88	532	7.98	1.50	1,359.31	5	28.97	515
7,156.13	305,369	42	606	14.20	2.34	1,050.31	4	28.32	547
2,476.14	58,122	25	194	8.25	4.26	169.40	1	7.46	134
5,173.73	256,050	61	350	7.07	2.02	1,354.34	4	55.03	314
5,558.04	269,403	98	229	4.73	2.06	9,210.72	11	253.31	452
1,138.73	48,750	17	239	5.58	2.33	1,613.21	3	87.50	152
10,338.46	555,049	115	402	7.49	1.86	9,445.04	9	298.89	517
721.16	13,695	20							86
6,325.03	399,130	86	387	6.13	1.51	3,200.25	7	159.30	366
7,808.65	530,220	86	514	7.57	1.50	5,122.61	13	208.90	586
6,256.75	302,495	55	458	9.48	2.07	1,208.95	2	138.40	365
1,948.02	81,253	28	242	5.80	2.40				102
4,197.04	180,439	51	295	6.86	2.33				257
4,067.23	190,048	56	283	6.05	2.14	2,050.61	4	66.80	213
4,413.06	332,810	57	487	6.45	1.33	5,633.83	11	226.45	326
4,950.32	230,988	65	296	6.35	2.14	1,606.82	8	40.20	303
4,493.96	118,300	61	162	6.14	3.80	758.69	2	13.27	314
8,253.27	345,782	87	331	7.91	2.39	9,783.68	16	394.40	419
14,228.14	740,866	129	479	9.19	1.92	17,697.19	26	526.60	765
1,653.61	69,373	38	152	3.63	2.39	1,368.44	2	40.20	124
13,097.10	734,758	149	411	7.33	1.78	8,423.45	35	363.48	706
1,611.39	96,501	50	161	2.69	1.67	934.98	6	38.14	266
2,327.97	109,202	35	260	5.54	2.13	1,222.70	3	29.40	186
1,811.49	39,003	17	191	8.88	4.64				100
2,115.12	87,158	23	316	7.66	2.43	448.41	2	12.83	151
1,452.50	67,101	22	256	5.54	2.16	260.77	1	13.00	117
5,082.90	294,720	42	585	10.09	1.72	7,097.79	10	217.48	338
10,882.07	568,895	119	398	7.62	1.91	12,740.66	17	541.30	600

CUSTOMERS, REVENUE

for Domestic, Commercial light, and

during the Year

MUNICIPALITIES

MUNICIPALITY	Popula- tion	DOMESTIC SERVICE					
		Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Average monthly bill	Av- erage cost per kwh
	No.	\$	kwh	No.	kwh	\$	cents
Nipigon Twp.....	V.A.	16,064.77	1,280,290	414	257	3.23	1.25
Norwich.....	1,380	17,731.16	1,679,930	463	302	3.19	1.06
Norwood.....	951	10,265.48	655,598	278	197	3.08	1.57
Oil Springs.....	448	3,283.09	232,231	130	149	2.11	1.42
Omemece.....	750	6,961.57	440,107	226	162	2.57	1.58
Orono.....	719	9,513.12	536,271	238	188	3.33	1.77
Otterville.....	588	6,411.51	540,350	192	235	2.78	1.18
Paisley.....	729	8,755.11	528,300	251	175	2.91	1.66
Palmerston.....	1,570	20,002.79	1,770,503	493	299	3.38	1.13
Parkhill.....	975	14,032.80	1,026,790	350	245	3.34	1.36
Plattsville.....	402	6,370.16	429,884	140	256	3.79	1.48
Point Edward.....	1,787	17,833.86	999,135	489	170	3.04	1.79
Port Elgin.....	1,610	28,221.24	1,752,482	683	214	3.44	1.61
Port McNicoll.....	853	8,702.13	478,592	339	118	2.14	1.80
Port Perry.....	1,725	22,421.55	1,390,939	514	226	3.64	1.60
Port Rowan.....	783	5,660.68	274,230	229	100	2.06	2.06
Port Stanley.....	1,205	29,164.79	2,246,305	1,048	179	2.32	1.30
Priceville.....	153	1,838.53	68,525	50	114	3.04	2.68
Princeton.....	334	4,721.29	359,680	116	258	3.39	1.31
Queenston.....	332	5,673.44	595,967	105	473	4.50	.90
Red Rock Imp. Dist.....	1,425	10,922.08	825,495	193	355	4.71	1.30
Richmond.....	570	6,653.85	430,468	158	227	3.51	1.55
Ripley.....	454	6,079.14	305,419	148	172	3.42	1.99
Rockwood.....	683	9,291.28	671,022	216	259	3.58	1.38
Rodney.....	913	6,041.55	429,430	312	115	1.61	1.40
Rosseau.....	197	2,549.70	72,750	87	70	2.44	3.50
Russell.....	475	5,818.94	292,380	143	170	3.39	1.99
St. Clair Beach.....	528	7,935.88	508,660	178	238	3.72	1.56
St. George.....	631	5,502.54	449,683	195	192	2.35	1.22
St. Jacobs.....	705	8,081.71	712,020	172	345	3.92	1.14
Schreiber Twp.....	V.A.	27,258.97	909,362	447	169	5.08	3.00
Shelburne.....	1,274	12,462.46	922,080	397	193	2.61	1.35
Smithville.....	658	6,027.49	433,428	220	164	2.28	1.40
Southampton.....	1,619	22,427.14	1,562,290	792	164	2.36	1.49
Springfield.....	517	4,178.81	242,801	133	152	2.62	1.72
Stayner.....	1,241	13,385.97	1,068,597	387	230	2.88	1.25
Stirling.....	1,157	14,498.41	1,346,071	367	306	3.29	1.08
Stoney Creek.....	1,805	27,027.86	2,293,268	551	347	4.09	1.18
Stouffville.....	1,701	17,086.07	1,719,285	527	272	2.70	.99
Streetsville.....	1,100	15,073.27	1,264,768	320	329	3.93	1.20

AND CONSUMPTION

Power service in Municipalities

1951—(Continued)

Less than 2,000 population—Continued

COMMERCIAL LIGHT SERVICE						POWER SERVICE			Total customers
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Average monthly bill	Average cost per kwh	Revenue	Cus- tomers	Average of customers' monthly loads billed	
\$	kwh	No.	kwh	\$	cents	\$	No.	kw	No.
14,778.23	1,054,500	99	887	12.44	1.40	1,791.02	4	62.40	517
9,535.66	537,612	98	457	8.11	1.77	3,627.71	11	140.03	572
5,564.72	217,830	76	239	6.10	2.55	4,798.38	5	154.57	359
1,972.92	83,582	38	183	4.33	2.37	5,578.36	33	124.70	201
3,228.26	123,400	40	257	6.73	2.62	2,362.96	6	70.41	272
3,443.96	120,300	43	233	6.67	2.86	371.03	3	12.22	284
2,967.55	166,190	68	204	3.64	1.78	867.27	9	45.54	269
5,125.93	207,210	63	274	6.78	2.47	2,451.15	7	67.30	321
10,915.33	599,121	106	471	8.58	1.82	10,497.16	22	522.60	621
8,094.58	372,300	94	330	7.18	2.18	5,889.07	12	159.30	456
3,650.62	171,598	30	477	10.14	2.13	4,341.41	2	145.20	172
7,422.59	264,314	65	339	9.52	2.81	97,223.54	13	2,510.70	567
14,088.75	625,893	151	345	7.78	2.25	7,645.55	14	242.10	848
1,926.23	81,590	29	234	5.54	2.40	10,813.72	2	1,162.55	370
10,135.30	438,622	105	348	8.04	2.30	3,732.70	12	125.64	631
6,081.20	309,361	78	331	6.50	1.96	732.38	4	31.00	311
10,764.29	636,901	124	428	7.23	1.69	15,379.74	17	687.26	1,189
1,023.41	32,653	12	227	7.11	3.13				62
1,812.92	86,902	29	250	5.21	2.08	2,092.93	4	62.70	149
3,421.27	218,577	23	792	12.40	1.60				128
8,173.31	460,540	21	1,829	32.43	1.70	653.35	2	15.60	216
3,125.07	143,612	27	443	9.65	2.18				185
3,620.99	92,079	55	139	5.49	3.90	2,542.68	3	65.10	206
3,070.81	162,320	38	356	6.73	1.89	69.29	2	2.90	256
4,326.72	229,592	79	242	4.56	1.88	3,821.16	9	151.19	400
2,424.94	70,012	16	365	12.63	3.50				103
3,366.50	110,132	38	242	7.38	3.06	391.20	2	10.02	183
3,271.81	152,925	15	850	18.18	2.14	255.09	1	11.19	194
3,887.00	244,411	46	443	7.04	1.59	3,662.94	5	121.80	246
3,519.41	186,518	39	400	7.52	1.88	4,068.87	8	181.80	219
12,399.11	375,275	48	651	21.52	3.30	5,739.12	2	128.20	497
7,849.67	467,660	98	397	6.67	1.68	5,017.31	13	208.20	508
4,548.43	230,077	70	274	5.41	2.00	11,483.01	9	403.80	299
10,791.10	447,769	93	401	9.67	2.41	15,607.04	14	498.10	899
1,745.59	81,340	33	205	4.41	2.15	1,539.51	4	51.06	170
7,072.90	343,539	101	283	5.83	2.06	4,473.48	19	188.70	507
7,579.27	405,770	89	380	7.10	1.87	3,037.87	15	142.04	471
11,585.82	578,034	89	541	10.85	2.01	4,513.72	12	131.80	652
9,839.64	655,368	102	535	8.04	1.50	8,459.54	11	368.50	640
6,280.05	309,644	71	363	7.37	2.00	17,006.08	13	572.10	404

CUSTOMERS, REVENUE
for Domestic, Commercial light, and
during the Year
MUNICIPALITIES

MUNICIPALITY	Popula- tion	DOMESTIC SERVICE					
		Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Average monthly bill	Av- erage cost per kwh
	No.	\$	kwh	No.	kwh	\$	cents
Sunderland.....	521	6,650.95	435,191	182	199	3.05	1.53
Sutton.....	1,235	15,793.76	1,075,825	600	149	2.19	1.50
Tara.....	490	5,582.07	352,620	174	169	2.67	1.58
Tavistock.....	1,096	13,844.33	1,384,358	341	338	3.38	1.00
Teeswater.....	854	8,427.05	583,474	265	183	2.65	1.46
Terrace Bay Imp. Dist.....	1,246	23,994.27	2,290,542	286	667	6.99	1.04
Thamesford.....	546	8,981.87	696,573	183	316	4.07	1.29
Thamesville.....	950	7,718.60	496,464	306	135	2.10	1.56
Thedford.....	592	6,531.30	388,251	206	157	2.64	1.68
Thornbury.....	1,003	11,358.05	705,890	340	173	2.78	1.61
Thorndale.....	299	4,547.70	267,441	94	237	4.03	1.70
Thornton.....	181	2,132.96	98,430	75	109	2.37	2.17
Tottenham.....	577	6,963.92	467,960	192	203	3.02	1.49
Trafalgar Twp.....	V.A.	80,725.80	5,006,370	1,248	334	5.39	1.60
Tweed.....	1,600	15,992.13	1,092,389	417	218	3.20	1.46
Uxbridge.....	1,776	22,029.60	1,604,845	563	238	3.26	1.40
Victoria Harbour.....	958	7,630.93	401,520	336	100	1.89	1.90
Wardsville.....	365	3,782.06	279,096	96	242	3.28	1.36
Warkworth.....	522	5,429.83	319,060	170	156	2.66	1.70
Waterdown.....	1,361	18,029.52	1,574,200	384	342	3.91	1.14
Waterford.....	1,665	15,068.52	1,228,310	533	192	2.36	1.23
Watford.....	1,149	15,653.81	1,131,274	357	264	3.65	1.38
Waubashene.....	V.A.	6,131.71	373,406	310	100	1.65	1.60
Wellesley.....	560	6,192.71	415,130	162	213	3.19	1.50
Wellington.....	993	10,749.45	853,680	397	179	2.26	1.26
West Lorne.....	1,036	8,811.99	659,084	292	188	2.52	1.34
Westport.....	716	7,270.05	443,300	197	188	3.08	1.64
Wheatley.....	1,006	9,113.60	621,660	297	174	2.56	1.47
Williamsburg.....	264	2,588.29	267,220	96	232	2.25	0.97
Winchester.....	1,175	12,111.15	1,059,310	355	249	2.84	1.14
Windermere.....	140	3,489.92	124,620	87	119	3.34	2.80
Woodbridge.....	1,673	20,302.57	1,901,938	434	365	3.90	1.10
Woodville.....	382	4,271.92	268,638	133	168	2.68	1.60
Wyoming.....	710	5,275.91	276,865	211	109	2.08	1.91
Zurich.....	534	7,548.61	422,018	195	183	3.23	1.77

AND CONSUMPTION

Power service in Municipalities

1951—(Concluded)

Less than 2,000 population—Concluded

COMMERCIAL LIGHT SERVICE						POWER SERVICE			Total customers
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Average monthly bill	Average cost per kwh	Revenue	Cus- tomers	Average of customers' monthly loads billed	
\$	kwh	No.	kwh	\$	cents	\$	No.	kw	No.
3,912.54	160,019	46	290	7.09	2.45	3,377.20	3	90.22	231
12,668.52	620,319	131	395	8.06	2.00	4,139.73	9	118.10	740
3,756.09	161,150	50	269	6.26	2.33	2,402.48	7	65.10	231
7,193.36	425,795	105	338	5.71	1.69	10,129.10	10	363.90	456
4,825.15	233,296	66	296	6.09	2.07	6,240.26	11	207.10	342
11,120.32	577,585	26	1,851	35.64	1.90	7,472.39	1	142.00	313
4,041.65	209,965	47	372	7.17	1.93	2,965.75	5	106.88	235
7,039.00	397,832	94	353	6.24	1.77	6,461.02	13	216.75	413
5,261.48	227,614	68	279	6.45	2.31	2,582.65	5	70.80	279
5,284.66	229,910	82	234	5.37	2.30	4,649.98	15	212.60	437
1,540.71	54,410	24	189	5.35	2.83	2,838.12	3	73.59	121
784.78	36,650	13	235	5.03	2.14	276.25	1	16.30	89
3,036.63	124,814	51	204	4.96	2.43	2,100.42	9	61.60	252
9,370.73	350,350	80	365	9.76	2.70	9,651.65	16	242.00	1,344
10,266.86	415,461	104	333	8.23	2.47	12,028.08	25	317.46	546
9,409.08	386,295	124	260	6.32	2.40	7,917.45	17	253.40	704
2,297.28	107,190	35	255	5.47	2.10	267.04	1	6.37	372
3,013.77	170,406	21	676	11.96	1.77	40.64	1	2.24	118
2,465.49	103,879	48	180	4.28	2.37	693.87	2	13.77	220
4,936.29	276,106	55	418	7.48	1.79	2,343.83	10	103.60	449
6,566.36	456,781	87	438	6.29	1.44	5,999.97	12	275.80	632
9,563.48	466,252	91	427	8.76	2.05	9,998.37	10	275.00	458
2,380.60	118,390	33	299	6.01	2.00	883.17	3	21.20	346
3,563.79	190,720	55	289	5.40	1.87	1,775.48	6	59.40	223
4,681.93	253,606	75	282	5.20	1.85	5,624.92	12	212.00	484
6,618.23	364,426	80	380	6.89	1.81	17,716.91	15	541.89	387
6,442.04	247,070	64	322	8.39	2.61				251
9,936.48	532,940	89	499	9.30	1.86	8,372.39	12	286.65	398
2,648.83	181,338	37	408	5.97	1.46	720.81	2	36.28	135
8,854.51	550,430	94	488	7.85	1.61	7,656.21	5	293.03	454
2,284.54	82,430	14	491	13.60	2.70	1,190.46	2	38.60	103
10,216.58	562,308	70	669	12.16	1.80	32,243.44	15	1,205.70	519
1,994.54	71,276	33	180	5.04	2.80	896.75	2	36.15	168
3,003.29	134,634	51	220	4.91	2.23	3,398.67	5	104.64	267
5,814.61	228,165	51	373	9.50	2.55	592.66	2	19.40	248

APPENDIX I—OPERATIONS

Summary Tabulations and Statements—Dependable Peak Capacity and Actual Station Output—Loads of Municipal Electrical Utilities

The tables presented in this appendix are modifications of some that in issues of the Report previous to 1950 appeared in the preface and in Section I. In this appendix they are convenient for reference and do not break the narrative of the Operation of the Systems.

The first set of four tables presents concisely a comparison of the resources, demands, and loads of 1951 and 1950.

The next table gives details of the capacity and output of the Commission's generating stations and lists the sources and quantities of its purchased power. The capacities listed are defined as "dependable 20-minute peak capacities" and may differ slightly from "maximum normal plant capacities" formerly shown. A definition of dependable capacity is placed at the end of the table. The most significant information about resources should be related to the time of maximum demand which, for the Commission, usually occurs in December.

In conformance with modern engineering practice, statistics of loads and capacities in these tables, and elsewhere in the Report, have been expressed in kilowatts rather than horsepower. For purposes of making comparisons with earlier issues of the Report or with other publications still employing the horsepower unit, the following approximate equation may be used:

$$1 \text{ horsepower} = .746 \text{ kilowatt}$$

The final table in the appendix, entitled "Loads of Municipal Electrical Utilities," has recently been modified to include data relating to energy consumption. Previously, comparisons were made between peak loads of consecutive years.

RESOURCES, GENERATED AND PURCHASED

DECEMBER 1950 AND 1951

	Dependable peak capacity		
	1950 kw	1951 kw	Increase kw
SOUTHERN ONTARIO SYSTEM			
Commission's generating stations.....	1,416,900	1,686,150	269,250
Power purchased.....	764,100	703,100	61,000
Total resources.....	2,181,000	2,389,250	208,250
THUNDER BAY SYSTEM			
Commission's generating stations.....	232,000	234,000	2,000
Power purchased.....	600	1,100	500
Total resources.....	232,600	235,100	2,500
NORTHERN ONTARIO PROPERTIES			
Commission's generating stations.....	316,700	317,400	700
Power purchased.....			
Total resources.....	316,700	317,400	700

PRIMARY LOADS CARRIED AND DEMANDS FOR PRIMARY POWER

DECEMBER 1950 AND 1951

At the time of the December potential primary peak demand

	1950 kw	1951 kw	Increase kw
SOUTHERN ONTARIO SYSTEM			
Primary load carried.....	2,147,764	2,283,654	135,890
Primary load cut.....	213,100	262,100	49,000
Primary demand.....	2,360,864	2,545,754	184,890
Estimated effect of voluntary curtailment in the supply of power to municipal and rural customers.....		84,246	84,246
Potential primary peak demand.....	2,360,864	2,630,000	269,136
THUNDER BAY SYSTEM (incl. Rainy River District)			
Primary load carried.....	179,710	192,415	12,705
Primary load cut.....			
Primary demand.....	179,710	192,415	12,705
NORTHERN ONTARIO PROPERTIES (excl. Rainy River District)			
Primary load carried.....	258,411	286,653	28,242
Primary load cut.....			
Primary demand.....	258,411	286,653	28,242

ENERGY UTILIZED 1950 AND 1951

	1950	1951	Increase calendar year 1951 over 1950
SOUTHERN ONTARIO SYSTEM	kwh	kwh	per cent
Primary.....	12,578,835,632	14,497,779,269	15.3
Secondary.....	299,193,600	788,612,500	163.6
Total primary and secondary....	12,878,029,232	15,286,391,769	18.7
THUNDER BAY SYSTEM (incl. Rainy River District)			
Primary.....	1,164,200,890	1,272,305,404	9.3
Secondary.....	169,067,100	305,968,300	81.0
Total primary and secondary....	1,333,267,990	1,578,273,704	18.4
NORTHERN ONTARIO PROPERTIES (excl. Rainy River District)			
Primary.....	1,544,603,716	1,774,275,426	14.9
Secondary.....	124,548,012	172,511,157	38.5
Total primary and secondary....	1,669,151,728	1,946,786,583	16.6

ENERGY SUPPLIED TO COMMISSION'S CUSTOMERS
1950 AND 1951

	1950	1951	Increase calendar year 1951 over 1950
SOUTHERN ONTARIO SYSTEM	kwh	kwh	per cent
Primary			
Municipalities*.....	6,924,883,374	7,713,325,160	11.4
Industries.....	3,384,070,073	4,095,512,238	21.0
Rural Power District**.....	901,416,491	1,039,648,198	15.3
Total.....	11,210,369,938	12,848,485,596	14.6
Secondary.....	291,338,340	750,783,500	157.7
Total primary and secondary....	11,501,708,278	13,599,269,096	18.2
THUNDER BAY SYSTEM (incl. Rainy River District)			
Primary			
Municipalities*.....	265,116,168	296,524,495	11.8
Industries.....	807,995,650	873,625,421	8.1
Rural Power District**.....	10,605,934	13,111,706	23.6
Total.....	1,083,717,752	1,183,261,622	9.2
Secondary.....	154,644,597	279,065,964	80.5
Total primary and secondary....	1,238,362,349	1,462,327,586	18.1
NORTHERN ONTARIO PROPERTIES (excl. Rainy River District)			
Primary			
Municipalities*.....	186,400,258	221,551,494	18.9
Industries.....	1,156,214,933	1,277,607,257	10.5
Rural Power District**.....	34,796,283	49,606,087	42.6
Total.....	1,377,411,474	1,548,764,838	12.4
Secondary.....	97,780,770	164,243,663	68.0
Total primary and secondary....	1,475,192,244	1,713,008,501	16.1

* Except group 5 see page 36.

** Including municipalities group 5 see page 36.

**DEPENDABLE PEAK CAPACITY, ACTUAL STATION PEAK OUTPUT
IN DECEMBER 1951, AND TOTAL ENERGY OUTPUT
DURING 1951**

		Dependable 20-min peak capacity	Actual 20-min peak output (net)	Total energy output (net)
SOUTHERN ONTARIO SYSTEM				
River	Hydro-Electric Generating Station	kw	kw	kwh
Niagara	*Sir Adam Beck-Niagara No. 1	320,000	390,000	2,713,366,000
	*Ontario Power	135,000	139,000	1,174,030,100
	*Toronto Power	105,000	108,000	887,678,300
Welland Canal	*DeCew Falls	122,000	122,000	816,800,000
	DeCew Falls (60 & 66 $\frac{2}{3}$ cycle)	28,000	34,000	217,126,800
Ottawa	Des Joachims	380,000	380,000	2,292,833,200
	Chenau	120,000	117,000	626,025,820
	*Chats Falls (Ontario half)	85,000	82,000	499,144,400
Madawaska	Barrett Chute	42,000	41,750	241,589,600
	Calabogie	4,400	4,410	27,533,040
	Stewartville	63,000	64,500	280,403,700
Trent	Heely Falls	11,150	12,000	79,741,940
	Seymour	2,950	3,275	20,631,840
	Ranney Falls	8,350	8,765	57,559,520
	Hagues Reach	3,250	3,650	23,720,540
	Meyersburg	5,100	5,850	39,222,790
	Sills Island	1,550	1,470	10,361,680
	Frankford	2,550	2,750	17,539,200
	Sidney	3,350	3,700	23,751,900
Muskoka	Bala No. 1 and 2	350	350	2,548,800
	Ragged Rapids	7,500	7,800	43,862,030
South Muskoka	Big Eddy	7,100	7,200	41,491,900
	Trethewey Falls	1,600	1,700	11,006,400
	Hanna Chute	1,200	1,300	7,340,000
Beaver	South Falls	4,200	4,300	26,706,060
	Eugenia Falls	5,400	5,880	26,280,200
Severn	Waddells Falls	750	760	4,275,401
	Big Chute	4,300	4,260	30,674,000
Otonabee	Fenelon Falls	700	700	5,314,610
	Lakefield	1,650	1,785	8,845,000
Mississippi	Auburn	1,750	1,930	12,157,860
	High Falls	2,450	2,800	14,975,520
	Carleton Place			
Rideau	Galetta	800	960	2,922,000
	Merrickville	900	785	4,956,200
Saugeen	Hanover	250	280	1,767,936
	Walkerton	350	355	2,420,500
Magnetawan	Burks Falls	250	130	320,200
Fuel-Electric Generating Station				
Location				
Toronto	Scarborough (steam)	20,000	26,300	25,597,700
	*Richard L. Hearn (steam)	88,000	90,000	24,300,000
Thorold	Ontario Paper (steam) (60 & 66 $\frac{2}{3}$ cycle)	15,000	17,500	17,203,500
Hamilton	Hamilton Beach (steam)	10,000	10,800	10,376,160
	*Steel Co. of Canada (steam)	6,000	5,000	23,610,600
	Westinghouse (diesel) (60 & 66 $\frac{2}{3}$ cycle)	2,000	2,000	21,200
Chatham	*Canada & Dominion Sugar Co. (steam)			5,039,500
Windsor	J. Clark Keith (steam)	61,000	5,000	637,400
Less 60 cycle diversion for station service use at Richard L. Hearn Generating Station			4,900	2,704,000
Total		1,686,150	**	10,401,007,047
THUNDER BAY SYSTEM				
River	Hydro-Electric Generating Station			
Nipigon	Cameron Falls	56,000	56,000	393,823,400
	Alexander	53,000	41,000	332,109,400
	Pine Portage	60,000	62,000	424,762,830
Aguasabon	Aguasabon	40,000	40,500	238,472,930
Kaministiquia	Kakabeka	25,000	25,500	183,292,100
Total		234,000	**	1,572,460,660

**DEPENDABLE PEAK CAPACITY, ACTUAL STATION PEAK OUTPUT
IN DECEMBER 1951, AND TOTAL ENERGY OUTPUT
DURING 1951**

NORTHERN ONTARIO PROPERTIES		Dependable 20-min peak capacity	Actual 20-min peak output (net)	Total energy output (net)
River	Hydro-Electric Generating Station	kw	kw	kwh
Abitibi	*Abitibi Canyon.....	184,000	181,000	1,146,629,000
Mississagi	George W. Rayner.....	42,000	47,200	297,094,860
English	Ear Falls.....	20,000	22,500	150,989,800
Mattagami	*Wawatit.....	9,200	10,920	74,038,672
	*Sandy Falls.....	3,200	2,900	21,892,212
	*Lower Sturgeon.....	6, 0	3,000	26,430,370
Montreal	Indian Chute.....	2,800	3,030	21,871,000
	Hound Chute.....	3,600	3,620	30,165,790
	Fountain Falls.....	2,000	1,000	7,561,500
	Upper Notch.....	8,400	8,200	60,588,000
Wanapitei	Stinson.....	5,500	5,730	28,952,447
	Coniston.....	4,200	4,160	30,065,600
	McVittie.....	2,300	2,290	11,657,720
Matabitchuan	Matabitchuan.....	9,000	8,800	57,196,580
Sturgeon	Crystal Falls.....	8,000	7,850	45,202,600
South	Nipissing.....	1,500	1,620	10,709,700
	Bingham Chute.....	900	940	5,401,700
	Elliott Chute.....	1,300	1,380	5,112,400
Albany	Rat Rapids.....	2,500	2,480	16,334,640
Kagawong	Kagawong.....	700	700	4,200,970
Location	Fuel-Electric Generating Station			
Kagawong	Kagawong (diesel portion).....	300	200	53,190
Total.....		317,400	**	2,052,148,751
Total generated—All systems.....		2,237,550	**	14,025,616,458
SOURCES OF PURCHASED POWER				
SOUTHERN ONTARIO SYSTEM				
	*Canadian Niagara Power Co.....	15,000	17,000	96,374,000
	Polymer Corporation.....	22,000	20,500	16,502,400
	Gatineau Power Co. (25 & 60 cycle).....	254,000	280,400	1,577,870,800
	*Ottawa Valley Power Co.....	85,000	82,000	502,977,400
	*Beauharnois Light, Heat & Power Co.....	187,000	213,000	1,667,860,000
	Maclaren-Quebec Power Co. (25 & 60 cycle).....	138,000	156,500	891,567,000
	Miscellaneous (relatively small suppliers) (25 & 60 cycle).....	2,100	4,474	21,526,122
Total.....		703,100	**	4,774,677,722
THUNDER BAY SYSTEM				
	Ontario-Minnesota Pulp & Paper Co.....	1,100	1,013	3,143,044
NORTHERN ONTARIO PROPERTIES				
	Abitibi Power & Paper Co. (25 & 60 cycle).....			6,143,180
	Miscellaneous (relatively small suppliers).....		122	1,871,652
Total.....			122	8,014,832
Total purchased—All systems.....		704,200	**	4,785,835,598
Total generated and purchased—All systems...		2,941,750	**	18,811,452,056

* 25-cycle stations, others are 60 cycle, except as indicated.

** Because the maximum 20-minute peak outputs of the various generating stations and purchased power sources in a system do not occur coincidentally, the sum of the power outputs should not be construed as representative of the peak load of that system.

The dependable peak capacity of a source of generation is the net output of power, subject to periodic change as equipment and water conditions vary, which the source is expected to be able to supply at the time of the system's primary peak demand. For Commission-owned or -operated generating stations, it is presumed that all units are available and that the supply of water is normal. Contractual stipulations govern the capacities of sources of purchased power.

LOADS OF MUNICIPAL ELECTRICAL UTILITIES 1951

Municipality	Date of first delivery	Fre- quency	Peak load December 1951	Energy con- sumption during year	Increase or decrease in consump- tion, calendar year 1951 over 1950
		cycles	kilowatts	'000 kwh	percentage
SOUTHERN ONTARIO SYSTEM					
Acton.....	Jan. '13	25	2,077.7	10,382	3.9
Agincourt.....	Nov. '22	60	760.5	3,105	15.6
Ailsa Craig.....	Jan. '16	60	202.6	696	9.5
Alexandria.....	Jan. '21	60	630.8	2,611	8.5
Alliston.....	Jun. '18	60	958.6	3,722	14.0
Almonte.....	Feb. '45	60	625.5	1,289	32.6
Alvinston.....	Apr. '22	60	187.4	593	6.6
Amherstburg.....	Feb. '19	25	1,789.5	8,202	4.3
Ancaster Twp.—V.A....	Jan. '14	25	886.6	3,391	19.9
Apple Hill.....	Apr. '21	60	54.8	201	9.4
Arkona.....	Dec. '26	60	151.2	510	14.3
Arnprior.....	Jun. '29	60	2,089.5	8,527	11.6
Arthur.....	Dec. '16	60	354.7	1,406	9.6
Athens.....	Jan. '29	60	128.3	658	19.1
Aurora.....	Dec. '20	60	1,901.5	9,761	9.1
Aylmer.....	Mar. '18	25	2,090.9	8,278	18.6
Ayr.....	Jan. '15	25	438.2	1,335	11.1
Baden.....	May '12	25	572.1	2,084	19.1
Bala.....	Apr. '29	60	181.6	1,010	3.2
Bancroft.....	Mar. '50	60	81.0	241	.....
Barrie.....	Apr. '13	60	7,330.9	33,016	13.0
Barry's Bay.....	Jan. '50	60	175.5	421	.....
Bath.....	Nov. '31	60	107.3	377	20.8
Beachville.....	Aug. '12	25	901.2	5,086	13.9
Beamsville.....	Jan. '30	25	840.5	3,706	7.0
Beaverton.....	Nov. '14	60	447.7	1,780	5.2
Beeton.....	Aug. '18	60	208.3	728	5.1
Belle River.....	Dec. '22	25	401.0	1,657	11.4
Belleville.....	Mar. '16	60	11,089.8	55,321	10.7
Blenheim.....	Nov. '15	25	1,078.0	3,925	12.0
Bloomfield.....	Apr. '19	60	191.5	827	5.2
Blyth.....	Jul. '24	60	357.7	1,422	10.0
Bobcaygeon.....	Jul. '46	60	297.0	1,235	34.5
Bolton.....	Feb. '15	60	370.0	1,513	41.5
Bothwell.....	Sep. '15	25	258.3	899	10.9
Bowmanville.....	Mar. '16	60	3,941.9	18,121	5.0
Bradford.....	Oct. '18	60	693.9	3,308	24.8
Braeside.....	Jun. '29	60	194.5	585	4.0
Brampton.....	Nov. '11	25	5,051.0	21,090	14.2
Brantford.....	Feb. '14	25	25,597.8	124,244	7.8
Brantford Twp.—V.A....	Oct. '15	25	4,674.6	17,742	15.5
Brechin.....	Jan. '15	60	77.7	241	7.3
Bridgeport.....	Mar. '28	25	422.9	1,470	9.1
Brigden.....	Jan. '18	60	184.6	507	16.5
Brighton.....	Mar. '16	60	759.3	3,364	4.2

LOADS OF MUNICIPAL ELECTRICAL UTILITIES 1951

Municipality	Date of first delivery	Fre- quency	Peak load December 1951	Energy con- sumption during year	Increase or decrease in consump- tion, calendar year 1951 over 1950
		cycles	kilowatts	'000 kwh	percentage
SOUTHERN ONTARIO SYSTEM—Continued					
Brockville.....	Apr. '15	60	8,026.7	37,705	7.8
Bronte.....	Jan. '30	60	398.0	1,312	19.3
Brussels.....	Jul. '24	60	358.1	1,498	15.0
Burford.....	Jun. '15	25	442.7	1,626	7.1
Burgessville.....	Nov. '16	25	98.8	314	7.1
Burks Falls.....	Jan. '50	60	208.2	663	
Burlington.....	Jan. '30	60	3,423.6	13,376	13.8
Burlington Beach.....	Jan. '30	25 & 60	850.8	3,305	12.4
Caledonia.....	Oct. '12	25	646.3	2,394	14.1
Campbellville.....	Jan. '25	25	94.9	317	18.6
Cannington.....	Nov. '14	60	366.0	1,421	21.5
Cardinal.....	Jul. '30	60	507.0	1,961	10.8
Carleton Place.....	May '19	60	2,062.4	9,995	0.2
Cayuga.....	Nov. '24	25	230.2	947	0.4
Chatham.....	Feb. '15	25	11,117.4	55,260	13.8
Chatsworth.....	Dec. '15	60	207.5	654	15.5
Chesley.....	Jul. '16	60	824.1	3,302	6.4
Chesterville.....	Apr. '14	60	645.1	2,600	15.5
Chippawa.....	Sep. '19	25	573.1	2,364	8.6
Clifford.....	May '24	25	225.3	872	17.6
Clinton.....	Mar. '14	60	1,313.6	5,846	10.6
Cobden.....	Dec. '34	60	304.8	1,037	15.7
Cobourg.....	Mar. '16	60	3,818.7	17,462	4.4
Colborne.....	Mar. '16	60	447.6	1,985	16.0
Coldwater.....	Mar. '13	60	239.8	950	7.8
Collingwood.....	Mar. '13	60	3,608.2	14,748	12.6
Comber.....	May '15	25	207.9	710	8.7
Cookstown.....	May '18	60	154.8	567	14.4
Cottam.....	Feb. '19	25	169.9	538	3.6
Courtright.....	Dec. '23	60	101.7	354	25.1
Creemore.....	Nov. '14	60	229.4	914	10.4
Dashwood.....	Sep. '17	60	177.0	564	10.5
Delaware.....	Mar. '15	60	165.8	518	9.9
Delhi.....	May '38	25	1,292.0	4,309	12.8
Deseronto.....	Mar. '16	60	488.9	2,193	14.8
Dorchester.....	Dec. '14	60	251.3	799	24.3
Drayton.....	Mar. '18	25	191.5	702	8.1
Dresden.....	Apr. '15	25	682.4	3,124	16.7
Drumbo.....	Dec. '14	25	159.6	518	3.1
Dublin.....	Oct. '17	60	82.9	432	10.4
Dundalk.....	Dec. '15	60	393.6	1,164	10.4
Dundas.....	Jan. '11	25	3,997.5	14,982	15.7
Dunnville.....	Jun. '18	25	2,202.7	8,159	7.0
Durham.....	Dec. '15	60	657.3	2,911	17.4
Dutton.....	Sep. '15	25	289.7	1,038	11.1

LOADS OF MUNICIPAL ELECTRICAL UTILITIES 1951

Municipality	Date of first delivery	Fre-	Peak load	Energy con-	Increase
		quency	December 1951	sumption during year	or decrease in consumption, calendar year 1951 over 1950
		cycles	kilowatts	'000 kwh	percentage
SOUTHERN ONTARIO SYSTEM—Continued					
East York Twp.—V.A.	Dec. '23	60	24,367.0	99,185	21.6
Elmira	Nov. '13	25	2,037.3	9,521	14.3
Elmvale	Jun. '13	60	365.7	1,424	17.7
Elmwood	Apr. '18	60	156.4	424	10.7
Elora	Nov. '14	25	657.7	2,567	14.7
Embro	Jan. '15	25	245.9	863	19.3
Erieau	Jul. '24	25	196.0	1,004	4.3
Erie Beach	Jul. '25	25	18.7	97	3.3
Erin	Jan. '45	60	218.3	675	40.6
Essex	Feb. '19	25	978.6	4,293	11.3
Etobicoke Twp.—V.A.	Aug. '17	25*	30,297.7	130,526	28.7
Exeter	Jun. '16	60	1,363.6	5,434	6.9
Fergus	Nov. '14	25	2,107.8	8,406	8.5
Finch	Feb. '28	60	173.8	628	8.0
Flesherton	Dec. '15	60	179.4	600	15.7
Fonthill	Jun. '26	25	637.4	2,326	17.3
Forest	Mar. '17	60	828.5	3,665	10.4
Forest Hill	Jan. '38	25	9,654.1	40,272	10.4
Frankford	Oct. '37	60	359.1	1,286	13.8
Galt	May '11	25	14,507.2	57,971	13.4
Georgetown	Sep. '13	25	2,572.4	13,100	10.8
Glencoe	Aug. '20	60	327.7	1,261	8.9
Goderich	Feb. '14	60	2,373.4	11,491	8.6
Grand Valley	Dec. '16	60	282.4	1,097	7.8
Granton	Jul. '16	60	74.6	280	8.8
Gravenhurst	Nov. '15	60	1,770.6	8,127	0.6
Grimsby	Jan. '30	25	1,290.2	6,388	11.1
Guelph	Dec. '10	25	16,372.0	74,220	8.8
Hagersville	Sep. '13	25	1,381.7	4,256	10.3
Hamilton	Feb. '11	25 & 60	182,626.7	1,009,824	9.0
Hanover	Sep. '16	60	2,284.4	8,704	13.1
Harriston	Jul. '16	25	764.3	3,295	13.5
Harrow	Feb. '19	25	947.6	3,281	9.2
Hastings	Jun. '31	60	224.9	863	2.7
Havelock	Feb. '21	60	327.6	1,190	15.5
Hensall	Jan. '17	60	377.6	1,357	8.5
Hepworth	Apr. '30	60	75.7	269	15.5
Hespeler	Feb. '11	25	3,596.6	17,066	0.4
Highgate	Dec. '16	25	150.5	412	21.3
Holstein	May '16	60	40.0	160	17.2
Humberstone	Oct. '24	25	900.1	3,635	9.7
Huntsville	Sep. '16	60	1,832.4	9,642	6.0
Ingersoll	May '11	25	4,000.2	17,053	5.5
Iroquois	Feb. '40	60	457.8	1,976	9.2
Jarvis	Feb. '24	25	245.3	965	7.8

* Changed from 25 to 60 cycles in period ending May 31, 1952.

LOADS OF MUNICIPAL ELECTRICAL UTILITIES 1951

Municipality	Date of first delivery	Fre-	Peak load	Energy con-	Increase
		quency	December	sumption	or decrease
		cycles	1951	during	in consump-
			kilowatts	year	tion, calendar
				'000 kwh	year 1951
					over 1950
percentage					
SOUTHERN ONTARIO					
SYSTEM—Continued					
Kemptville.....	Dec. '21	6	878.9	3,546	28.3
Kincardine.....	Mar. '21	60	1,158.2	5,512	7.6
Kingston.....	Dec. '17	60	22,830.0	106,665	7.7
Kingsville.....	Feb. '19	25	1,177.2	4,246	9.0
Kirkfield.....	Jun. '20	60	50.2	160	15.1
Kitchener.....	Jan. '11	25	36,735.5	167,445	9.4
Lakefield.....	Aug. '20	60	952.3	4,973	32.7
Lambeth.....	Apr. '15	60	515.0	1,630	55.5
Lanark.....	Sep. '21	60	166.8	587	2.2
Lancaster.....	May '21	60	110.1	420	26.6
La Salle.....	Nov. '25	25	641.6	2,472	21.8
Leamington.....	Feb. '19	25	3,113.7	14,593	13.3
Lindsay.....	Mar. '16	60	4,768.0	22,167	10.2
Listowel.....	Jun. '16	25	1,880.0	8,038	13.6
London.....	Jan. '11	60	47,224.5	248,358	4.6
London Twp.—V.A....	Sep. '17	60	1,137.0	3,945	13.7
Long Branch.....	Jan. '31	25	4,006.0	17,474	21.7
Lucan.....	Feb. '15	60	376.8	1,499	9.3
Lucknow.....	Jan. '21	60	496.1	2,115	17.9
Lynden.....	Nov. '15	25	198.8	609	10.0
Madoc.....	Mar. '16	60	551.1	1,999	14.1
Magnetawan.....	Jul. '51	60	40.0		
Markdale.....	Mar. '16	60	397.7	1,386	7.6
Markham.....	Apr. '20	60	687.8	2,651	18.9
Marmora.....	Jan. '21	60	285.1	1,059	33.8
Martintown.....	May '21	60	72.0	253	9.8
Maxville.....	Feb. '21	60	214.0	792	9.2
Meaford.....	Jan. '24	60	1,370.4	5,347	19.4
Merlin.....	Dec. '22	25	176.0	584	13.0
Merrickville.....	Jul. '50	60	313.8	1,224	
Merritton.....	Nov. '20	25	11,347.8	60,869	7.9
Midland.....	Jul. '11	60	5,174.2	22,438	21.4
Mildmay.....	Apr. '30	60	318.5	1,065	12.6
Millbrook.....	Mar. '16	60	239.6	891	15.9
Milton.....	Apr. '13	25	2,156.3	8,605	14.8
Milverton.....	Jun. '16	25	634.0	2,082	19.4
Mimico.....	May '12	60	4,991.8	19,829	15.1
Mitchell.....	Sep. '11	60	1,280.9	4,980	10.3
Moorefield.....	Mar. '18	25	95.4	361	15.6
Morrisburg.....	Jun. '38	60	684.5	3,307	10.5
Mount Brydges.....	Mar. '15	60	210.4	683	6.0
Mount Forest.....	Dec. '15	60	1,006.8	3,623	16.8
Napanee.....	Mar. '16	60	1,994.1	9,212	10.3
Neustadt.....	Dec. '18	60	133.3	469	13.1
Newboro.....	Dec. '48	60	54.0	187	20.3

LOADS OF MUNICIPAL ELECTRICAL UTILITIES 1951

Municipality	Date of first delivery	Fre- quency	Peak load December 1951	Energy con- sumption during year	Increase or decrease in consump- tion, calendar year 1951 over 1950
		cycles	kilowatts	'000 kwh	percentage
SOUTHERN ONTARIO SYSTEM—Continued					
Newburgh.....	Mar. '16	60	102.7	396	5.6
Newbury.....	Mar. '21	25	75.8	314	12.9
Newcastle.....	Mar. '16	60	408.1	1,616	9.8
New Hamburg.....	Mar. '11	25	918.8	3,232	12.7
Newmarket.....	Dec. '20	60	2,962.1	11,983	11.8
New Toronto.....	Feb. '14	25*	12,020.1	63,970	7.6
Niagara.....	Aug. '19	25	1,183.4	5,851	8.7
Niagara Falls.....	Dec. '15	25	13,688.9	64,600	10.1
North York Twp.—V.A.	Nov. '23	25 & 60	46,762.0	184,773	38.9
Norwich.....	May '12	25	710.5	2,727	14.1
Norwood.....	Feb. '21	60	348.4	1,340	19.5
Oakville.....	Jan. '30	60	3,845.0	17,939	25.6
Oil Springs.....	Feb. '18	60	216.3	1,000	4.4
Omeme.....	Jan. '18	60	235.3	868	4.8
Orangeville.....	Jul. '16	60	1,394.2	5,800	11.6
Orono.....	Mar. '16	60	224.0	736	15.3
Oshawa.....	Mar. '16	60	29,621.0	139,722	26.9
Ottawa.....	Jan. '14	60	69,730.0	286,338	27.5
Otterville.....	Feb. '16	25	221.6	839	8.2
Owen Sound.....	Dec. '15	60	8,376.2	36,573	10.3
Paisley.....	Sep. '23	60	265.2	1,016	10.4
Palmerston.....	Jul. '16	25	805.4	3,756	6.9
Paris.....	Feb. '14	25	2,507.5	10,575	3.0
Parkhill.....	May '20	60	469.5	1,918	13.1
Parry Sound.....	Aug. '46	60	628.6	2,310	57.8
Penetanguishene.....	Jul. '11	60	1,477.6	6,811	14.9
Perth.....	Feb. '19	60	2,473.9	9,560	9.0
Peterborough.....	Mar. '13	60	23,875.0	114,049	10.5
Petrolia.....	May '16	60	1,243.0	6,017	16.2
Pictou.....	Apr. '19	60	2,120.3	9,680	9.8
Plattsville.....	Dec. '14	25	273.5	972	13.9
Point Edward.....	Nov. '16	60	2,153.1	8,380	1.2
Port Carling.....	Apr. '29	60	179.1	1,222	9.1
Port Colborne.....	Mar. '20	25	3,250.5	13,547	22.4
Port Credit.....	Aug. '12	25*	2,169.0	9,014	15.6
Port Dalhousie.....	Nov. '12	25	1,218.0	6,379	8.7
Port Dover.....	Dec. '21	25	971.6	3,873	9.8
Port Elgin.....	Apr. '30	60	701.4	3,256	14.5
Port Hope.....	Mar. '16	60	4,515.9	21,145	8.0
Port McNicoll.....	Jan. '15	60	1,317.5	1,422	126.7†
Port Perry.....	Sep. '22	60	602.4	2,326	18.2
Port Rowan.....	Nov. '26	25	205.5	680	10.7
Port Stanley.....	Apr. '12	25	664.6	3,950	8.7
Prescott.....	Dec. '13	60	1,532.8	6,470	8.5
Preston.....	Jan. '11	25	5,271.0	18,191	9.3

* Changed from 25 to 60 cycles in period ending May 31, 1952.

† This is not a normal increase. During 1951 the municipality took over a power customer formerly supplied by H-E-P.C.

LOADS OF MUNICIPAL ELECTRICAL UTILITIES 1951

Municipality	Date of first delivery	Fre- quency	Peak load December 1951	Energy con- sumption during year	Increase or decrease in consump- tion, calendar year 1951 over 1950
		cycles	kilowatts	'000 kwh	percentage
SOUTHERN ONTARIO SYSTEM—Continued					
Priceville.....	Mar. '21	60	18.7	67	8.5
Princeton.....	Jan. '15	25	181.7	633	19.0
Queenston.....	Mar. '21	25	212.0	944	12.2
Renfrew.....	Dec. '44	60	1,455.3	5,150.	10.3
Richmond.....	Aug. '28	60	198.2	652	28.2
Richmond Hill.....	Jun. '25	60	1,302.2	4,675	20.0
Ridgetown.....	Dec. '15	25	816.7	3,149	9.0
Ripley.....	Jan. '21	60	164.6	580	8.2
Riverside.....	Nov. '22	25	3,414.9	12,936	32.0
Rockwood.....	Sep. '13	25	292.7	997	16.5
Rodney.....	Feb. '17	25	274.0	1,020	17.0
Rosseau.....	Jul. '31	60	41.8	186	9.2
Russell.....	Feb. '26	60	135.5	499	10.3
St. Catharines.....	Apr. '14	25 & 60	32,111.5	156,221	6.7
St. Clair Beach.....	Nov. '22	25	209.3	758	27.8
St. George.....	Sep. '15	25	273.9	992	2.9
St. Jacobs.....	Sep. '17	25	348.8	1,285	2.9
St. Marys.....	May '11	60	2,273.0	10,178	5.9
St. Thomas.....	Apr. '11	25	9,735.0	51,317	5.3
Sarnia.....	Dec. '16	60	18,669.6	90,341	15.3
Scarborough Twp.—V.A.	Aug. '18	60	21,462.4	81,390	33.5
Seaforth.....	Nov. '11	60	1,304.0	4,792	3.6
Shelburne.....	Jul. '16	60	529.7	2,087	14.4
Simcoe.....	Apr. '15	25	3,806.0	15,499	9.9
Smiths Falls.....	Sep. '18	60	4,464.8	18,551	7.1
Smithville.....	Jan. '30	25	410.6	1,384	7.1
Southampton.....	Apr. '30	60	712.7	3,361	7.0
Springfield.....	Aug. '17	25	133.5	474	14.0
Stamford Twp.—V.A...	Nov. '16	25	7,268.2	28,682	21.0
Stayner.....	Oct. '13	60	537.8	1,871	16.3
Stirling.....	Mar. '16	60	582.5	2,243	10.6
Stoney Creek.....	Jan. '30	25	963.0	3,790	24.0
Stouffville.....	Sep. '23	60	883.2	3,090	16.2
Stratford.....	Jan. '11	25	9,693.0	48,505	12.2
Strathroy.....	Dec. '14	60	2,135.7	9,438	14.2
Streetsville.....	Dec. '34	25	833.4	4,061	10.5
Sunderland.....	Nov. '14	60	257.4	828	18.5
Sutton.....	Aug. '23	60	467.9	2,299	12.3
Swansea.....	Oct. '37	60	4,237.9	19,163	13.4
Tara.....	Feb. '18	60	215.2	737	7.9
Tavistock.....	Nov. '16	25*	782.0	3,126	18.8
Tecumseh.....	Nov. '22	25	802.8	3,656	13.1
Teeswater.....	Dec. '20	60	370.4	1,292	10.6
Thamesford.....	Feb. '14	60	414.2	1,323	18.3
Thamesville.....	Oct. '15	25	507.7	1,460	18.0

* Changed from 25 to 60 cycles in period ending May 31, 1952.

LOADS OF MUNICIPAL ELECTRICAL UTILITIES 1951

Municipality	Date of first delivery	Fre- quency	Peak load December 1951	Energy con- sumption during year	Increase or decrease in consump- tion, calendar year 1951 over 1950
		cycles	kilowatts	'000 kwh	percentage
SOUTHERN ONTARIO SYSTEM—Continued					
Thedford.....	May '22	60	237.6	879	3.2
Thornbury.....	Sep. '44	60	285.0	762	19.2
Thorndale.....	Mar. '14	60	170.5	530	21.5
Thornton.....	Nov. '18	60	69.0	187	17.5
Thorold.....	Jan. '21	25	4,274.8	22,999	6.8
Tilbury.....	Apr. '15	25	1,111.7	4,848	1.5
Tillsonburg.....	Aug. '11	25	2,781.8	10,528	7.9
Toronto.....	Jun. '11	25 & 60	421,584.0	2,211,206	8.2
Toronto Twp.—V.A....	Aug. '13	25	11,027.1	45,255	17.0
Tottenham.....	Oct. '18	60	247.4	855	7.1
Trafalgar Twp.—V.A...	Dec. '23	25 & 60	2,008.8	7,100	34.9
Trenton.....	Mar. '16	60	7,251.2	34,840	6.6
Tweed.....	Mar. '16	60	540.2	2,625	5.9
Uxbridge.....	Sep. '22	60	675.0	2,846	16.0
Victoria Harbor.....	Jul. '14	60	157.6	648	6.4
Walkerton.....	Apr. '30	60	1,588.0	6,059	11.5
Wallaceburg.....	Feb. '15	25	7,290.1	37,276	0.3
Wardsville.....	Jun. '21	25	114.6	520	9.0
Warkworth.....	Oct. '23	60	170.8	553	23.8
Waterdown.....	Nov. '11	25	622.9	2,279	10.5
Waterford.....	Apr. '15	25	634.0	2,494	6.9
Waterloo.....	Dec. '10	25	8,155.0	35,316	8.0
Watford.....	Sep. '17	60	641.4	2,263	10.3
Waubashene—V.A. . .	Dec. '14	60	157.5	736	7.7
Welland.....	Sep. '17	25	12,211.0	58,192	15.6
Wellesley.....	Nov. '16	25	234.4	793	16.5
Wellington.....	Apr. '19	60	349.2	1,473	10.9
West Lorne.....	Jan. '17	25	716.6	2,144	6.9
Weston.....	Aug. '11	25	6,125.1	30,522	7.1
Westport.....	Nov. '31	60	215.2	777	16.7
Wheatley.....	Feb. '24	25	455.5	1,750	7.0
Whitby.....	Mar. '16	60	2,684.0	11,460	11.9
Warton.....	Apr. '30	60	666.5	3,273	8.2
Williamsburg.....	Apr. '15	60	168.5	587	28.2
Winchester.....	Jan. '14	60	703.7	2,440	5.6
Windermere.....	Jun. '30	60	51.4	314	12.0
Windsor.....	Oct. '14	25	63,333.0	292,697	9.8
Wingham.....	Dec. '20	60	1,277.4	5,661	10.4
Woodbridge.....	Dec. '14	60	1,549.4	7,136	6.0
Woodstock.....	Jan. '11	25	10,839.6	48,771	9.4
Woodville.....	Nov. '14	60	105.0	433	40.1
Wyoming.....	Nov. '16	60	262.2	602	5.4
York Twp.—V.A.	Jan. '13	25	37,684.3	166,645	15.3
Zurich.....	Sep. '17	60	227.0	779	12.2

LOADS OF MUNICIPAL ELECTRICAL UTILITIES 1951

Municipality	Date of first delivery	Fre-	Peak load	Energy con-	Increase
		quency	December 1951	sumption during year	or decrease in consumption, calendar year 1951 over 1950
		cycles	kilowatts	'000 kwh	percentage
THUNDER BAY SYSTEM					
Beardmore Imp. Dist...	Jun. '37	60	270.6	1,108	7.2
Fort William	Oct. '26	60	29,944.4	146,269	8.2
Geraldton	Feb. '37	60	821.3	3,618	10.6
Jellicoe	Dec. '51	60	4.0	.....	.....
Nipigon Twp.—V.A....	Jan. '25	60	676.2	3,030	4.0
Port Arthur	Dec. '10	60	28,902.0	130,345	15.6
Red Rock Imp. Dist....	Feb. '48	60	384.0	1,585	7.6
Schreiber Twp.—V.A....	Nov. '48	60	502.8	2,908	26.7
Terrace Bay Imp. Dist.	Jan. '48	60	871.8	4,163	8.8
NORTHERN ONTARIO					
PROPERTIES					
Atikokan Imp. Dist....	Dec. '44	60	1,114.5	4,307	46.0
Cache Bay	Dec. '50	60	77.0	236	.....
Capreol	May '35	60	883.5	3,804	17.6
Cobalt	Jan. '45	60	655.6	2,673	.....
Cottage Cove Townsite	Nov. '40	60	164.0	625	9.8
Elk Lake Townsite	Jan. '45	25	119.0	406	18.2
Englehart	Jan. '45	60	592.9	2,286	22.4
Haileybury	Jan. '45	60	1,035.6	3,962	4.4
Hudson Townsite	Oct. '39	60	131.0	444	2.1
Kearns Townsite	Dec. '38	25	127.5	472	6.5
King Kirkland Town-					
site	Dec. '36	25	56.7	204	8.9
Larder Lake Twp.	Mar. '49	60	453.3	2,074	10.5
Latchford	Apr. '50	60	52.8	172	.....
Matachewan Townsite.	Apr. '35	25	283.5	1,001	12.2
Matheson	Dec. '35	25	295.0	1,077	20.8
McGarry Imp. Dist....	Mar. '49	60	607.4	2,235	20.3
New Liskeard	Jan. '45	60	1,913.4	7,403	13.3
North Bay	Mar. '16	60	8,075.8	39,311	9.7
Powassan	Mar. '16	60	272.0	879	31.9
Red Lake Townsite	Jun. '38	60	634.3	2,568	4.1
Schumacher	Jan. '45	25	908.5	3,457	8.0
Sioux Lookout	Sep. '39	60	878.1	4,129	14.7
South Porcupine Town-					
site	Jan. '45	25	1,370.4	5,592	8.9
Sturgeon Falls	Apr. '51	60	1,056.2	.....	.....
Sudbury	Feb. '30	60	18,584.8	77,942	24.2
Swastika Townsite	Jan. '45	25	363.2	1,358	16.2
Teck Twp. (Kirkland					
Lake)	Jan. '45	25 & 60	5,602.0	23,451	33.4
Thornloe	Jan. '45	60	26.5	113	.....
Timmins	Jan. '45	25	7,681.9	30,427	5.4

APPENDIX II—FINANCIAL

Schedules in Support of Financial Statements Presented in Section II, Pages 18 to 35

Those financial statements which are probably of greatest interest to the majority of readers are given in Section II in the main body of this Report. The detailed supporting schedules are given here, and for convenient reference they have been listed in an index which appears both in Section II and in Appendix II.

FINANCIAL STATEMENTS

Relating to

Properties Operated by The Hydro-Electric Power Commission of
Ontario on Behalf of the Co-operating Municipalities and
Rural Power Districts of the Southern Ontario
System and the Thunder Bay System,
and to

Northern Ontario Properties Held and Operated by the Commission
in Trust for the Province of Ontario

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THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS

FIXED ASSETS—Summary, December 31, 1951

System or property	Under construction	In service		Total
		Non-depreciable	Depreciable	
	\$	\$	\$	\$
Southern Ontario System	144,267,135.45	115,673,777.66	440,385,544.27	700,326,457.38
Thunder Bay System	920,399.64	5,822,161.58	64,996,571.13	71,739,132.35
Administrative and service buildings and equipment . . .	901,182.44	659,417.26	15,184,395.50	16,744,995.20
Rural Power Districts				
Southern Ontario System . . .	5,512,664.00	37,559.97	105,674,750.56	111,224,974.53
Thunder Bay System	330,281.97	.....	2,193,112.48	2,523,394.45
Total fixed assets	151,931,663.50	122,192,916.47	628,434,373.94	902,558,953.91
Less grants in aid of construction—Province of Ontario for Rural Power Districts . . .				56,343,648.38
				846,215,305.53

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO SYSTEM

FIXED ASSETS—December 31, 1951

Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
	\$	\$	\$	\$
GENERATING STATIONS				
Niagara Division				
Niagara River				
Sir Adam Beck—Niagara				
No. 1.....	4,268.40	47,927,949.95	28,705,291.83	76,637,510.18
Sir Adam Beck—Niagara				
No. 2.....	31,130,724.86			31,130,724.86
Ontario Power.....		7,281,151.42	14,478,355.07	21,759,506.49
Toronto Power.....	7,250.66	3,823,379.60	7,625,168.44	11,455,798.70
Niagara Weir.....		416,326.62		416,326.62
Welland Canal				
DeCew Falls.....	11,236.57	10,263,655.45	16,073,076.67	26,347,968.69
Ottawa River				
Otto Holden.....	46,505,865.07			46,505,865.07
Des Joachims.....		13,639,498.00	59,248,734.08	72,888,232.08
Chenault.....		2,285,160.00	26,402,647.74	28,687,807.74
Chats Falls.....	27,571.60	817,658.36	6,587,658.05	7,432,888.01
Power sites, etc.....	786,242.82			786,242.82
Long Lac Diversion.....	2,969.42	258,057.40	637,699.11	898,725.93
Ogoki Diversion.....		3,300,539.39	1,740,709.10	5,041,248.49
Diesel generation.....			456,412.99	456,412.99
Steam generating stations				
Richard L. Hearn, Toronto.....	16,046,242.59	750,000.00	12,750,000.00	29,546,242.59
J. Clark Keith, Windsor.....	24,811,996.66			24,811,996.66
Auxiliaries.....		184,297.87	6,011,932.50	6,196,230.37
Georgian Bay Division				
Muskoka River				
Bala No. 1 and No. 2.....		69,120.64	43,379.34	112,499.98
Ragged Rapids.....		70,889.49	1,257,432.28	1,328,321.77
Big Eddy.....		170,434.74	1,119,192.76	1,289,627.50
Land and water rights.....		17,224.03		17,224.03
South Muskoka River				
Trethewey Falls.....	108.97	51,549.45	305,605.47	357,263.89
Hanna Chute.....	93.06	33,469.30	207,373.10	240,935.46
South Falls.....		17,934.95	566,220.60	584,155.55
Hollow Lake Dam.....		18,425.43	29,540.16	47,965.59
Beaver River				
Eugenia.....	589.39	142,538.73	1,169,026.34	1,312,154.46
Seyvern River				
Wasdell Falls.....	274.90	13,752.32	192,002.90	206,030.12
Big Chute.....	25,349.73	178,040.48	567,714.23	771,104.44
Saugeen River				
Hanover.....		10,000.00		10,000.00
Walkerton.....		100,286.31	104,883.80	205,170.11
Magnetawan River				
Burks Falls.....		24,134.00	156,975.32	181,109.32
Sauble River				
Lands and rights.....		4,200.00		4,200.00
Credit River				
Caledon.....		7,675.00	27,795.02	35,470.02
Miscellaneous.....	5,682.71	1,735.29	44,686.40	52,104.40
Eastern Ontario Division				
Trent River				
Heely Falls.....	11,787.75		1,211,666.81	1,223,454.56
Seymour.....	10,734.90		314,003.09	324,737.99

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
SOUTHERN ONTARIO SYSTEM
FIXED ASSETS—December 31, 1951

Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
	\$	\$	\$	\$
GENERATING STATIONS— (Continued)				
Ranney Falls.....		18,596.20	1,416,784.95	1,435,381.15
Hagues Reach.....			572,466.30	572,466.30
Meyersburg.....	356.19		837,281.91	837,638.10
Sills Island.....		38,679.36	282,821.87	321,501.23
Frankford.....			280,609.43	280,609.43
Sidney.....			249,850.46	249,850.46
Crow River.....		1,000.00		1,000.00
Otonabee River				
Fenelon Falls.....		60,000.00	112,848.63	172,848.63
Lakefield.....	1,110.13	19,620.05	216,651.44	237,381.62
Auburn.....		31,400.00	302,174.05	333,574.05
Madawaska River				
Barrett Chute.....		702,098.49	4,006,920.34	4,709,018.83
Calabogie.....		79,825.74	679,927.48	759,753.22
Stewartville.....		840,221.08	10,661,981.76	11,502,202.84
Bark Lake Dam.....	3,277.11	614,248.81	796,318.65	1,413,844.57
Kaministiquia Dam.....		24,980.86	1,795.46	26,776.32
Undeveloped sites.....	231,821.56	800,000.00		1,031,821.56
Mississippi River				
High Falls.....		13,154.84	709,988.90	723,143.74
Galetta.....		20,000.00	137,398.19	157,398.19
Rideau River				
Merrickville.....		7,547.51	115,238.35	122,785.86
Miscellaneous.....		14.00	36,354.94	36,368.94
Intangible.....		2,217,761.29		2,217,761.29
	119,625,555.05	97,368,232.45	209,452,596.31	426,446,383.81
TRANSFORMER STATIONS				
Niagara Division.....	10,482,782.01		113,210,478.98	123,693,260.99
Georgian Bay Division.....	198,640.64		4,801,279.22	4,999,919.86
Eastern Ontario Division.....	1,320,390.95		11,616,787.09	12,937,178.04
	12,001,813.60		129,628,545.29	141,630,358.89
TRANSMISSION LINES				
Niagara Division.....	10,311,552.81	16,818,637.43	77,508,094.52	104,638,284.76
Georgian Bay Division.....	282,020.05	180,866.94	5,090,139.15	5,553,026.14
Eastern Ontario Division.....	1,019,640.77	1,306,040.84	11,562,974.97	13,888,656.58
	11,613,213.63	18,305,545.21	94,161,208.64	124,079,967.48
LOCAL SYSTEMS				
Niagara Division.....	219.38		90,570.86	90,790.24
Georgian Bay Division.....	15,302.08		167,021.61	182,323.69
	15,521.46		257,592.47	273,113.93
COMMUNICATIONS				
Southern Ontario System.....	1,011,031.71		6,885,601.56	7,896,633.27
Total.....	144,267,135.45	115,673,777.66	440,385,544.27	700,326,457.38
RURAL POWER DISTRICT				
H-E.P.C. investment.....	2,778,787.61	37,559.97	53,326,580.38	56,142,927.96
Government grants.....	2,733,876.39		52,348,170.18	55,082,046.57
Total—Rural Power District.....	5,512,664.00	37,559.97	105,674,750.56	111,224,974.53

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
THUNDER BAY SYSTEM

FIXED ASSETS—December 31, 1951

Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
GENERATING STATIONS	\$	\$	\$	\$
Nipigon River				
Cameron Falls.....		857,418.84	9,679,159.91	10,536,578.75
Alexander.....	1,796.07	77,373.72	7,120,234.53	7,199,404.32
Pine Portage.....	1,607.13	2,630,000.00	24,186,149.55	26,817,756.68
Virgin Falls Dam.....		55,450.41	431,190.80	486,641.21
Aguasabon River				
Aguasabon.....		937,004.94	11,737,730.52	12,674,735.46
Kaministikwia River				
Kakabeka Falls.....		518,603.86	3,681,569.63	4,200,173.49
	3,403.20	5,075,851.77	56,836,034.94	61,915,289.91
TRANSFORMER STATIONS.....	75,223.07		1,934,466.93	2,009,690.00
TRANSMISSION LINES.....	763,775.67	746,309.81	5,842,570.58	7,352,656.06
COMMUNICATIONS.....	65,276.70		252,556.56	317,833.26
LOCAL SYSTEMS.....	12,721.00		130,942.12	143,663.12
Total.....	920,399.64	5,822,161.58	64,996,571.13	71,739,132.35
RURAL POWER DISTRICT				
H-E.P.C. investment.....	165,140.99		1,096,651.65	1,261,792.64
Government grants.....	165,140.98		1,096,460.83	1,261,601.81
Total—Rural Power District.....	330,281.97		2,193,112.48	2,523,394.45

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
ADMINISTRATIVE BUILDINGS AND SERVICE BUILDINGS AND EQUIPMENT
FIXED ASSETS—December 31, 1951

Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
ADMINISTRATIVE BUILDINGS	\$	\$	\$	\$
Toronto—University Ave.	367,098.49	462,561.54	4,068,771.14	4,898,431.17
—210 Bloor St. W.		42,000.00	259,188.51	301,188.51
	367,098.49	504,561.54	4,327,959.65	5,199,619.68
SERVICE BUILDINGS AND EQUIPMENT				
Buildings				
Toronto—Strachan Avenue			192,491.78	192,491.78
—1379 Bloor St. W.			50,000.00	50,000.00
A. W. Manby Service Centre	534,083.95	154,855.72	6,510,011.58	7,198,951.25
Cobourg			4,879.24	4,879.24
Hamilton			550,000.00	550,000.00
Equipment				
Toronto			1,499,746.72	1,499,746.72
Regions			370,319.88	370,319.88
Office equipment				
Toronto			968,303.54	968,303.54
Regions			710,683.11	710,683.11
	534,083.95	154,855.72	10,856,435.85	11,545,375.52
Total	901,182.44	659,417.26	15,184,395.50	16,744,995.20

**THE HYDRO-ELECTRIC POWER
STATEMENT SHOWING CHANGES IN FIXED ASSETS—**

Property	Balance at beginning of year	Expenditures during year
SOUTHERN ONTARIO SYSTEM	\$	\$
GENERATING STATIONS		
Niagara Division		
Niagara River		
Sir Adam Beck—Niagara No. 1.	76,635,687.91	1,614.27
Sir Adam Beck—Niagara No. 2.	859,370.68	29,780,336.39
Ontario Power.	21,721,181.31	64,510.18
Toronto Power.	11,455,267.86	530.84
Niagara Weir.	416,326.62	
Welland Canal		
DeCew Falls.	26,457,503.51	74,072.66
Ottawa River		
Otto Holden.	25,060,931.10	21,444,933.97
Des Joachims.	70,273,363.36	2,614,868.72
Chenau.	24,103,880.02	4,583,927.72
Chats Falls.	7,359,235.81	73,652.20
Ogoki Diversion.	5,041,199.75	48.74
Diesel generation.	217,679.70	13,755.00
Steam generating stations		
Richard L. Hearn, Toronto.	9,846,854.42	19,699,388.17
J. Clark Keith, Windsor.	10,558,613.11	14,253,383.55
Auxiliaries.	6,419,336.35	111,318.02
Other properties.	1,689,677.28	3,624.20
Georgian Bay Division		
Muskoka River		
Ragged Rapids.	1,328,010.85	310.92
Big Eddy.	1,288,653.13	974.37
South Muskoka River		
Trethewey Falls.	357,154.92	108.97
South Falls.	583,134.01	1,021.54
Beaver River		
Eugenia.	1,312,705.23	582.23
Severn River		
Big Chute.	749,197.69	21,906.75
Other properties.	1,126,218.31	7,652.34
Eastern Ontario Division		
Trent River		
Heely Falls.	1,219,147.31	4,307.25
Seymour.	316,546.01	8,191.98
Ranney Falls.	1,435,381.15	
Hagues Reach.	572,466.30	
Meyersburg.	837,609.06	29.04
Sills Island.	321,376.19	125.04
Otonabee River		
Auburn.	333,574.05	
Madawaska River		
Barrett Chute.	4,708,589.29	509.54
Calabogie.	759,753.22	
Stewartville.	11,454,014.19	58,222.65
Bark Lake Dam.	1,410,354.54	3,490.03
Mississippi River		
High Falls.	723,143.74	
Intangible and undeveloped sites.	3,247,278.39	2,304.46
Other properties.	1,262,600.13	30,045.62
	333,463,016.50	92,711,602.04

† See Summary on page 297.

COMMISSION OF ONTARIO

During Year Ended December 31, 1951

Adjustment- for equipment relocated and reclassified	Retirements		Balance at end of year
	Values recovered (stores, sales, and salvage)	Charged to reserves for depreciation and contingencies	
\$	\$	\$	\$
208.00			76,637,510.18
491,017.79			31,130,724.86
		26,185.00	21,759,506.49
			11,455,798.70
			416,326.62
12,156.06	6,352.50	16,953.60	26,347,968.69
			46,505,865.07
			72,888,232.08
			28,687,807.74
			7,432,888.01
250,937.29		†25,959.00	5,041,248.49
			456,412.99
			29,546,242.59
		†334,424.00	24,811,996.66
	8,332.73		6,196,230.37
			1,684,968.75
			1,328,321.77
			1,289,627.50
			357,263.89
			584,155.55
	860.98	272.02	1,312,154.46
			771,104.44
17,975.00	175.00	3,011.62	1,112,709.03
			1,223,454.56
			324,737.99
			1,435,381.15
			572,466.30
			837,638.10
			321,501.23
			333,574.05
		80.00	4,709,018.83
10,034.00			759,753.22
			11,502,202.84
			1,413,844.57
			723,143.74
6,143.45	340.38	1,142.47	3,249,582.85
			1,285,019.45
695,854.57	16,061.59	408,027.71	426,446,383.81

THE HYDRO-ELECTRIC POWER

STATEMENT SHOWING CHANGES IN FIXED ASSETS—

Property	Balance at beginning of year	Expenditures during year
	\$	\$
SOUTHERN ONTARIO SYSTEM—(Continued)		
TRANSFORMER STATIONS		
Niagara Division.....	104,090,515.49	20,482,344.44
Georgian Bay Division.....	4,383,010.32	601,900.64
Eastern Ontario Division.....	10,814,283.72	2,258,356.71
	119,287,809.53	23,342,601.79
TRANSMISSION LINES		
Niagara Division.....	89,788,729.24	12,871,183.84
Georgian Bay Division.....	4,593,643.97	974,607.88
Eastern Ontario Division.....	15,198,870.18	1,322,591.37
	109,581,243.39	15,168,383.09
COMMUNICATIONS		
All divisions.....	6,248,273.60	1,719,823.69
LOCAL SYSTEMS		
Niagara Division.....	88,308.10	2,841.64
Georgian Bay Division.....	170,309.64	22,609.81
	258,617.74	25,451.45
Sub-total.....	568,838,960.76	132,967,862.06
RURAL POWER DISTRICT		
H-E.P.C. investments.....	48,088,495.17	9,147,558.96
Government grants.....	47,254,308.22	8,920,864.52
	95,342,803.39	18,068,423.48
Total—Southern Ontario System.....	664,181,764.15	151,036,285.54
THUNDER BAY SYSTEM		
Generating Stations.....	61,922,467.62	366,306.13
Transformer Stations.....	1,934,228.52	114,946.87
Transmission Lines.....	7,014,791.24	345,064.67
Local System.....	129,181.52	15,407.46
Communications.....	284,026.64	38,443.19
Sub-total.....	71,284,695.54	880,168.32
RURAL POWER DISTRICT		
H-E.P.C. investments.....	968,833.33	297,015.55
Government grants.....	968,705.51	296,952.54
	1,937,538.84	593,968.09
Total—Thunder Bay System.....	73,222,234.38	1,474,136.41

COMMISSION OF ONTARIO

During Year Ended December 31, 1951

Adjustment for equipment relocated and reclassified	Retirements		Balance at end of year
	Values recovered (stores, sales, and salvage)	Charged to reserves for depreciation and contingencies	
\$	\$	\$	\$
251,307.71	107,315.05	520,976.18	123,693,260.99
88,512.92	4,705.72	68,798.30	4,999,919.86
69,370.55	11,389.24	54,702.60	12,937,178.04
232,165.34	123,410.01	644,477.08	141,630,358.89
2,305,452.96	106,310.23	220,771.05	104,638,284.76
44,189.84	9,855.05	49,560.50	5,553,026.14
2,436,047.45	10,642.49	186,115.03	13,888,656.58
86,474.65	126,807.77	456,446.58	124,079,967.48
9,107.63	2,285.59	78,286.06	7,896,633.27
	282.50	77.00	90,790.24
	8,148.57	2,447.19	182,323.69
	8,431.07	2,524.19	273,113.93
386,392.21	276,996.03	1,589,761.62	700,326,457.38
50,760.95	681,409.53	462,477.59	56,142,927.96
50,760.95	681,409.54	462,477.58	55,082,046.57
101,521.90	1,362,819.07	924,955.17	111,224,974.53
487,914.11	1,639,815.10	2,514,716.79	811,551,431.91
370,162.58		3,321.26	61,915,289.91
	7,313.89	32,171.50	2,009,690.00
183.60	970.20	6,413.25	7,352,656.06
		925.86	143,663.12
183.60		4,452.97	317,833.26
370,162.58	8,284.09	47,284.84	71,739,132.35
	3,694.08	362.16	1,261,792.64
	3,694.08	362.16	1,261,601.81
	7,388.16	724.32	2,523,394.45
370,162.58	15,672.25	48,009.16	74,262,526.80

THE HYDRO-ELECTRIC POWER

STATEMENT SHOWING CHANGES IN FIXED ASSETS—

Property	Balance at beginning of year	Expenditures during year
ADMINISTRATIVE BUILDINGS AND SERVICE BUILDINGS AND EQUIPMENT	\$	\$
ADMINISTRATIVE BUILDINGS		
Toronto—University Avenue	4,638,995.65	290,323.72
—210 Bloor Street West	299,264.63	1,923.88
	4,938,260.28	292,247.60
SERVICE BUILDINGS AND EQUIPMENT		
Buildings		
Toronto—Strachan Avenue	192,491.78	
—1379 Bloor Street West	50,000.00	
A. W. Manby Service Centre	6,008,270.30	1,237,782.67
Other properties	663,123.06	9,562.71
Equipment		
Toronto	1,254,979.27	244,767.45
Regions	242,557.91	127,761.97
Office equipment		
Toronto	806,253.89	163,994.82
Regions	561,771.88	149,819.92
	9,779,448.09	1,933,689.54
Total—Administrative Buildings and Service Buildings and Equipment	14,717,708.37	2,225,937.14
Total	752,121,706.90	154,736,359.09
Less grants in aid of construction		
Province of Ontario for Rural Power Districts...	48,223,013.73	8,120,634.65
	703,898,693.17	146,615,724.44

COMMISSION OF ONTARIO

During Year Ended December 31, 1951

Adjustment for equipment relocated and reclassified	Retirements		Balance at end of year
	Values recovered (stores, sales, and salvage)	Charged to reserves for depreciation and contingencies	
\$	\$	\$	\$
40.00		*30,928.20	4,898,431.17
			301,188.51
40.00		30,928.20	5,199,619.68
			192,491.78
			50,000.00
15.00		*47,116.72	7,198,951.25
117,806.53			554,879.24
			1,499,746.72
			370,319.88
		1,945.17	968,303.54
		908.69	710,683.11
117,791.53		49,970.58	11,545,375.52
117,751.53		80,898.78	16,744,995.20
	1,655,487.35	2,643,624.73	902,558,953.91
			56,343,648.38
	1,655,487.35	2,643,624.73	846,215,305.53

Summary of retirements charged to reserves
for depreciation and contingencies

Depreciation.....	\$1,223,303.81
Contingencies.....	981,893.00
—Amortization of diesel and auxiliary steam plants.....	360,383.00
Operations	
—* Amortization of temporary buildings	78,044.92
Total	\$2,643,624.73

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS

DEPRECIATION RESERVES—December 31, 1951

	Southern Ontario System	Thunder Bay System	Administrative and service buildings and equipment	Totals
Balances at January 1, 1951..	\$ 88,889,647.86	\$ 6,826,133.71	\$ 1,437,556.13	\$ 97,153,337.70
Add:				
Interest at 4% per annum on reserve balances.....	3,555,585.92	273,045.57	26,411.55	3,855,043.04
Provision in the year—				
—direct.....	5,961,434.04	592,086.98		6,553,521.02
—indirect.....	2,894.40	35.44	406,507.70	409,437.54
Sub-total.....	98,409,562.22	7,691,301.70	1,870,475.38	107,971,339.30
Deduct:				
Amount withdrawn for re- newals.....	27,430.04	5,914.90		21,515.14
Amount withdrawn on assets retired—current year....	1,197,007.75	23,442.20	2,853.86	1,223,303.81
—prior years.....			26,383.15	26,383.15
Excess depreciation accumu- lated on assets retired— transferred to con- tingency reserve.....	184,155.74			184,155.74
Adjustments and with- drawals re transfer of equipment (net).....	252,406.89	554.13	12,933.03	264,785.79
Balances at December 31, 1951	96,748,561.80	7,674,328.53	1,828,305.34	106,251,195.67

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO SYSTEM

FREQUENCY STANDARDIZATION RESERVE—December 31, 1951

Balance at January 1, 1951.....	\$ 42,575,296.48
Add:	
Prior year adjustment of expenditures for frequency standardization.....	58,652.73
Interest at 4% per annum on monthly balance.....	208,202.67
Provision in the year.....	7,333,281.46
Industrial customers' contributions.....	646,937.24
	50,822,370.58
Less expenditures for frequency standardization.....	34,976,305.00
Balance at December 31, 1951.....	15,846,065.58

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS
EXCHANGE PREMIUM RECEIVED ON FUNDED DEBT—December 31, 1951

Exchange premium received on funded debt issued in United States funds		
Received during 1951:		
3¼% May 15, 1951 issue.....	\$3,053,419.35	
Less:		
Portion applicable to Northern Ontario Properties.....	183,205.16	
3¼% September 1, 1951 issue.....		\$2,870,214.19
		2,201,074.47
		\$5,071,288.66
Received in 1943 on 3% January 1, 1943 issue previously carried in the reserves for contingencies and obsolescence.		486,250.00
		\$5,557,538.66
Balance at December 31, 1951.....		

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS
CONTINGENCIES AND OBSOLESCENCE RESERVES—December 31, 1951

	Southern Ontario System	Thunder Bay System	Totals
	\$	\$	\$
Balances at January 1, 1951.....	30,473,159.03	7,370,428.85	37,843,587.88
Add:			
Interest at 4% per annum on reserve balances.....	1,215,596.77	247,365.15	1,462,961.92
Provision in the year—direct.....	7,243,448.57	337,454.30	7,580,902.87
—indirect.....	2,894.41	35.44	2,929.85
Excess depreciation accumulated on assets retired—transferred from depreciation reserve.....	184,155.74		184,155.74
Adjustments re transfer of equipment, etc.	22,815.33	5,382.92	28,198.25
Sub-total.....	39,142,069.85	7,960,666.66	47,102,736.51
Deduct:			
Contingencies met with during year....	564,945.62	45,446.32	519,499.30
Excess of cost of fixed assets retired over accumulated depreciation—			
—current year.....	957,326.04	24,566.96	981,893.00
—prior years.....	113,506.36	1,750.24	115,256.60
Amortization of auxiliary generating equipment.....	360,383.00		360,383.00
Loss on sale of power to companies.....		423,850.54	423,850.54
Premium received on 1943 bond issue transferred to reserve for exchange premium on funded debt.....	486,250.00		486,250.00
Balances at December 31, 1951.....	36,659,658.83	7,555,945.24	44,215,604.07

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS
STABILIZATION OF RATES RESERVES—December 31, 1951

	Southern Ontario System	Thunder Bay		Total
		System	Mining area	
	\$	\$	\$	\$
Balances at January 1, 1951..	22,618,373.90	559,570.02	650,955.65	23,828,899.57
Interest at 4% on reserve balances.....	904,734.96	22,382.80	26,038.23	953,155.99
Provision in the year.....	1,480,283.70		37,402.64	1,517,686.34
Balances at December 31, 1951	25,003,392.56	581,952.82	714,396.52	26,299,741.90

The above amount of \$25,003,392.56 includes special accounts of \$1,892,941.07, \$771,616.65, and \$2,008,102.11 pertaining to municipalities of the Niagara, Georgian Bay, and Eastern Ontario Divisions respectively.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS
RURAL POWER DISTRICTS—RATES SUSPENSE ACCOUNT—December 31, 1951

	Southern Ontario	Thunder Bay	Total
	\$	\$	\$
Balances at credit or <i>debit</i> January 1, 1951....	2,527,345.82	143,476.61	2,383,869.21
Interest at 4% on monthly balances.....	120,607.50	6,471.43	114,136.07
Excess or <i>deficiency</i> of revenue from sale of power for the year ended December 31, 1951.....	65,092.59	58,397.43	6,695.16
Adjustment of reimbursement made by the Province of Ontario respecting rural de- ficits for the years 1930-1933.....	228,979.14		228,979.14
Balances at credit or <i>debit</i> December 31, 1951..	2,484,066.77	208,345.47	2,275,721.30

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS
SINKING FUND RESERVES—December 31, 1951

	Southern Ontario System	Thunder Bay System	Administrative and service buildings and equipment	Total
	\$	\$	\$	\$
Balances at January 1, 1951..	119,696,664.04	7,152,116.53	1,363,283.65	128,212,064.22
Interest at 4% per annum on reserve balances.....	4,787,866.54	286,084.66	54,531.35	5,128,482.55
Provision in the year—direct..	6,010,223.96	753,184.92		6,763,408.88
—indirect	3,046.45	18.20	113,915.29	116,979.94
Balances at December 31, 1951	130,497,800.99	8,191,404.31	1,531,730.29	140,220,935.59

SOUTHERN ONTARIO SYSTEM

and

THUNDER BAY SYSTEM

**Cost of Power, Amount Billed at Interim Rates, and Balance Credited
or Charged to Municipalities for the year ended
December 31, 1951**

SOUTHERN ONTARIO

COST OF POWER, AMOUNT BILLED AT INTERIM RATES,

For the Year

Municipality	Interim rate per kilowatt	Power and energy supplied during year		Share of power purchased, operating costs, and		
		Average of monthly peak loads corrected for power factor	Energy	Power supply		Bulk transmission
				based on energy	based on peak load	
	\$	kw	'000 kwh	\$	\$	\$
Acton.....	38.60	2,501.0	10,382.4	11,760.40	31,228.02	11,149.28
Agincourt.....	38.20	582.8	3,104.8	3,516.88	7,276.97	2,598.08
Ailsa Craig.....	45.10	192.1	695.6	787.92	2,398.60	856.37
Alexandria.....	42.70	585.5	2,610.9	2,957.43	7,310.68	817.75
Alliston.....	40.80	807.3	3,722.2	4,216.23	10,080.12	2,283.05
Almonte.....	36.60	614.7	1,288.5	1,459.52	7,675.28	858.53
Alvinston.....	52.20	163.3	592.9	671.59	2,039.00	727.98
Amherstburg.....	44.40	1,573.8	8,201.6	9,290.16	19,650.80	7,015.89
Ancaster Twp.....	37.40	683.8	3,391.2	3,841.30	8,538.08	3,048.33
Apple Hill.....	43.50	54.3	201.0	227.68	678.00	75.84
Arkona.....	52.20	143.7	509.8	577.46	1,794.27	640.60
Arnprior.....	37.20	2,007.4	8,526.6	9,658.29	25,064.83	2,803.68
Arthur.....	48.10	324.0	1,406.0	1,592.61	4,045.54	1,383.45
Athens.....	41.10	152.6	657.6	744.88	1,905.40	213.13
Aurora.....	39.50	1,837.7	9,760.8	11,056.30	22,945.91	8,192.34
Aylmer.....	39.50	1,665.6	8,277.8	9,376.47	20,797.04	7,425.13
Ayr.....	39.60	363.0	1,335.2	1,512.41	4,532.49	1,618.23
Baden.....	36.90	600.0	2,083.6	2,360.15	7,491.72	2,674.76
Bancroft.....	52.20	68.7	240.8	272.76	857.79	95.95
Barrie.....	32.10	6,473.5	33,016.3	37,398.38	80,829.52	18,307.13
Barry's Bay.....	52.20	102.6	421.2	477.10	1,281.09	143.30
Bath.....	44.60	100.2	377.0	427.04	1,251.12	139.95
Beachville.....	38.50	903.3	5,086.4	5,761.49	11,278.79	4,026.85
Beamsville.....	36.00	743.5	3,705.6	4,197.43	9,283.50	3,314.47
Beaverton.....	40.20	420.4	1,780.4	2,016.70	5,249.21	1,188.90
Beeton.....	49.70	178.3	727.8	824.40	2,226.29	504.23
Belle River.....	45.30	370.5	1,657.1	1,877.04	4,626.14	1,651.66
Belleville.....	34.30	10,416.3	55,321.3	62,663.81	130,060.14	14,548.15
Blenheim.....	43.10	817.0	3,924.8	4,445.72	10,201.24	3,642.13
Bloomfield.....	45.20	204.3	827.0	936.76	2,550.93	285.34
Blyth.....	46.40	332.3	1,422.0	1,610.73	4,149.17	1,481.37
Bobcaygeon.....	47.70	306.2	1,234.8	1,398.69	3,727.41	427.66
Bolton.....	41.50	325.2	1,512.6	1,713.36	4,060.52	1,449.72
Bothwell.....	49.20	201.1	899.0	1,018.32	2,510.98	896.49
Bowmanville.....	38.80	3,787.0	18,121.4	20,526.54	47,285.29	5,289.19
Bradford.....	41.50	685.0	3,308.2	3,747.28	8,553.06	1,937.19
Braeside.....	36.30	230.0	584.8	662.42	2,871.83	321.23
Brampton.....	34.80	4,604.3	21,090.0	23,889.17	57,490.28	20,525.64
Brantford.....	34.10	24,774.5	124,243.6	140,733.80	309,339.69	110,442.97
Brantford Twp.....	34.80	3,711.4	17,741.6	20,096.35	46,341.33	16,545.16

SYSTEM

AND BALANCE CREDITED OR CHARGED TO MUNICIPALITIES

Ended December 31, 1951

fixed charges	Special provisions			Share of surplus resulting from sales to other customers	Total cost of power and energy	Amount billed at interim rates	Balance credited or charged
	Frequency standardization	Stabilization of rates	Special contingencies				
\$	\$	\$	\$	\$	\$	\$	\$
25,393.90	8,753.50		3,403.71	867.87	90,820.94	96,538.92	5,717.98
4,258.11	2,039.80		793.16	202.24	20,280.76	22,262.97	1,982.21
3,397.76	672.35		261.44	66.66	8,307.78	8,664.45	356.67
8,309.55		2,049.25	796.83	203.17	22,038.32	24,998.70	2,960.38
10,669.56		2,825.55	1,098.68	280.14	30,893.05	32,939.54	2,046.49
6,192.86		2,151.45	836.57	213.31	18,960.90	22,499.22	3,538.32
3,320.21	571.55		222.24	56.67	7,495.90	8,526.43	1,030.53
24,207.12	5,508.30		2,141.85	546.12	67,268.00	69,877.83	2,609.83
5,262.75	2,393.30		930.61	237.28	23,777.09	25,575.67	1,798.58
797.01		190.05	73.90	18.84	2,023.64	2,362.41	338.77
2,226.44	502.95		195.57	49.87	5,887.42	7,502.86	1,615.44
26,534.90		7,025.90	2,731.95	696.59	73,122.96	74,676.52	1,553.56
3,521.84		1,194.00	440.94	112.43	12,005.95	15,583.58	3,577.63
1,852.48		534.10	207.68	52.95	5,404.72	6,269.80	865.08
12,600.94	6,431.95		2,501.00	637.70	63,090.74	72,587.81	9,497.07
19,794.66	5,829.60		2,266.78	577.98	64,911.70	65,793.50	881.80
3,890.29	1,270.50		494.02	125.96	13,191.98	14,375.79	1,183.81
5,566.25	2,100.00		816.56	208.21	20,801.23	22,138.78	1,337.55
2,048.19		240.45	93.50	23.83	3,584.81	3,584.81	
42,845.93		22,657.25	8,810.04	2,246.37	208,601.88	207,800.40	801.48
1,972.69		359.10	139.63	35.60	4,337.31	5,356.57	1,019.26
1,208.54		350.70	136.37	34.77	3,478.95	4,467.80	988.85
9,088.00	3,161.55		1,229.34	313.45	34,232.57	34,776.73	544.16
6,200.47	2,602.25		1,011.86	258.00	26,351.98	26,765.40	413.42
6,105.54		1,471.40	572.14	145.88	16,458.01	16,901.04	443.03
3,348.88		624.05	242.66	61.87	7,708.64	8,864.40	1,155.76
6,082.88	1,296.75		504.23	128.57	15,910.13	16,782.13	872.00
102,798.88		36,457.05	14,175.96	3,614.56	357,089.43	357,278.51	189.08
10,312.39	2,859.50		1,111.89	283.51	32,289.36	35,213.78	2,924.42
3,213.03		715.05	278.04	70.89	7,908.26	9,235.86	1,327.60
4,156.57	1,163.05		452.24	115.31	12,897.82	15,420.26	2,522.44
3,839.16		1,071.70	416.72	106.25	10,775.09	14,603.34	3,828.25
3,592.78	1,138.20		442.58	112.85	12,284.31	13,493.71	1,209.40
4,664.01	703.85		273.69	69.78	9,997.56	9,892.89	104.67
39,436.08		13,254.50	5,153.88	1,314.12	129,631.36	146,935.26	17,303.90
7,728.75		2,397.50	932.24	237.70	25,058.32	28,429.19	3,370.87
2,981.26		805.00	313.02	79.81	7,874.95	8,348.38	473.43
34,031.06	16,115.05		6,266.18	1,597.73	156,719.65	160,227.90	3,508.25
150,214.84	86,710.75		33,716.60	8,596.97	822,561.68	844,810.43	22,248.75
20,926.83	12,989.90		5,050.99	1,287.89	120,662.67	129,157.59	8,494.92

SOUTHERN ONTARIO

COST OF POWER, AMOUNT BILLED AT INTERIM RATES,

For the Year

Municipality	Interim rate per kilowatt	Power and energy supplied during year		Share of power purchased, operating costs, and		
		Average of monthly peak loads corrected for power factor	Energy	Power supply		Bulk transmission
				based on energy	based on peak load	
	\$			\$	\$	\$
Brechin	45.20	71.1	241.0	272.99	887.77	201.07
Bridgeport	38.20	341.7	1,470.0	1,665.11	4,266.53	1,523.27
Brigden	45.20	147.2	507.2	574.52	1,837.97	656.21
Brighton	40.60	696.0	3,364.4	3,810.94	8,690.41	972.08
Brockville	37.80	7,995.1	37,704.6	42,708.94	99,828.52	11,166.52
Brussels	46.20	326.7	1,497.8	1,696.60	4,079.24	1,456.41
Burford	37.60	423.1	1,626.0	1,841.81	5,282.92	1,886.15
Burgessville	40.20	105.7	313.6	355.22	1,319.79	471.20
Burks Falls	52.20	161.4	663.2	751.22	2,015.28	456.44
Burlington	36.10	2,675.5	13,375.7	15,150.99	33,406.86	11,927.19
Caledonia	37.30	515.8	2,394.4	2,712.20	6,440.39	2,299.40
Campbellville	43.30	81.5	316.8	358.85	1,017.62	363.32
Cannington	41.10	339.0	1,420.7	1,609.26	4,232.83	958.70
Cardinal	40.30	506.6	1,960.6	2,220.82	6,325.51	707.55
Carleton Place	36.30	2,263.6	9,995.0	11,321.59	28,263.79	3,161.50
Cayuga	41.50	212.6	947.2	1,072.92	2,654.57	947.76
Chatham	36.50	10,749.2	55,260.1	62,594.49	134,216.80	47,919.17
Chatsworth	42.90	174.7	653.9	740.69	2,181.34	745.95
Chesley	38.90	831.9	3,302.2	3,740.48	10,387.28	3,552.13
Chesterville	38.90	619.9	2,600.1	2,945.20	7,740.20	865.80
Chippawa	32.40	469.3	2,364.0	2,677.76	5,859.78	2,092.11
Clifford	45.60	196.8	871.6	987.28	2,457.28	877.32
Clinton	38.80	1,206.6	5,846.4	6,622.36	15,065.86	5,378.94
Cobden	50.90	288.7	1,037.0	1,174.64	3,604.77	403.22
Cobourg	41.00	3,655.7	17,461.5	19,779.08	45,645.85	5,105.81
Colborne	43.30	396.6	1,984.8	2,248.23	4,952.03	553.92
Coldwater	45.00	199.1	949.6	1,075.64	2,486.00	563.06
Collingwood	37.40	3,476.0	14,747.8	16,705.20	43,402.08	9,830.17
Comber	47.50	193.0	709.8	804.01	2,409.84	860.38
Cookstown	42.90	147.8	567.2	642.48	1,845.46	417.98
Cottam	45.00	134.5	537.7	609.07	1,679.39	599.59
Courtright	47.60	83.2	353.7	400.64	1,038.85	370.90
Creemore	39.90	212.4	914.4	1,035.76	2,652.07	600.67
Dashwood	45.80	175.5	563.8	638.63	2,191.33	782.37
Delaware	40.90	142.8	518.0	586.75	1,783.04	636.59
Delhi	38.50	945.4	4,308.8	4,880.68	11,804.46	4,214.53
Deseronto	45.80	445.6	2,192.8	2,483.84	5,563.86	622.36
Dorchester	40.20	182.3	799.3	905.39	2,276.24	812.68
Drayton	46.20	194.0	702.2	795.40	2,422.32	864.84
Dresden	44.70	719.9	3,124.0	3,538.63	8,988.82	3,209.26

SYSTEM

AND BALANCE CREDITED OR CHARGED TO MUNICIPALITIES

Ended December 31, 1951

fixed charges	Special provisions			Share of surplus resulting from sales to other customers	Total cost of power and energy	Amount billed at interim rates	Balance credited or charged
	Frequency standard-ization	Stabil-ization of rates	Special contingencies				
\$	\$	\$	\$	\$	\$	\$	\$
962.25		248.85	96.76	24.67	2,645.02	3,212.21	567.19
2,592.41	1,195.95		465.03	118.57	11,589.73	13,050.06	1,460.33
2,431.26	515.20		200.33	51.08	6,164.41	6,654.56	490.15
9,457.18		2,436.00	947.21	241.52	26,072.30	28,255.89	2,183.59
93,141.68		27,982.85	10,880.85	2,774.37	282,934.99	302,215.70	19,280.71
4,349.43	1,143.45		444.62	113.37	13,056.38	15,094.66	2,038.28
3,928.68	1,480.85		575.80	146.82	14,849.39	15,907.01	1,057.62
1,206.74	369.95		143.85	36.68	3,830.07	4,248.46	418.39
3,349.37		564.90	219.66	56.01	7,300.86	8,426.38	1,125.52
19,993.65	9,364.25		3,641.19	928.42	92,555.71	96,585.84	4,030.13
4,697.01	1,805.30		701.97	178.99	18,477.28	19,239.65	762.37
965.31	285.25		110.92	28.28	3,072.99	3,530.74	457.75
5,194.86		1,186.50	461.36	117.64	13,525.87	13,933.90	408.03
6,821.02		1,773.10	689.45	175.79	18,361.66	20,417.64	2,055.98
25,138.73		7,922.60	3,080.62	785.49	78,103.34	82,169.58	4,066.24
2,363.23	744.10		289.34	73.77	7,998.15	8,821.84	823.69
87,717.27	37,622.20		14,629.02	3,730.07	380,968.88	392,345.17	11,376.29
2,799.14		611.45	237.76	60.62	7,255.71	7,492.82	237.11
9,109.64		2,911.65	1,132.17	288.68	30,544.67	32,360.55	1,815.88
7,495.43		2,169.65	843.65	215.11	21,844.82	24,112.14	2,267.32
4,685.98	1,642.55		638.69	162.85	17,434.02	15,205.32	2,228.70
2,598.44	688.80		267.83	68.29	7,808.66	8,975.98	1,167.32
10,354.96	4,223.10		1,642.10	418.70	42,868.62	46,817.69	3,949.07
1,588.56		1,010.45	392.90	100.18	8,074.36	14,692.70	6,618.34
59,338.66		12,794.95	4,975.19	1,268.56	146,370.98	149,883.68	3,512.70
5,688.29		1,388.10	539.75	137.62	15,232.70	17,174.57	1,941.87
3,493.44		696.85	270.96	69.09	8,516.86	8,961.00	444.14
40,486.60		12,166.00	4,730.63	1,206.20	126,114.48	130,003.33	3,888.85
3,306.73	675.50		262.66	66.97	8,252.15	9,169.09	916.94
2,595.65		517.30	201.15	51.29	6,168.73	6,339.19	170.46
1,902.62	470.75		183.05	46.67	5,397.80	6,050.21	652.41
1,106.98	291.20		113.23	28.87	3,292.93	3,962.30	669.37
2,820.99		743.40	289.06	73.70	8,068.25	8,474.41	406.16
2,869.11	614.25		238.84	60.90	7,273.63	8,039.42	765.79
1,802.81	499.80		194.34	49.55	5,453.78	5,840.86	387.08
8,428.43	3,308.90		1,286.63	328.06	33,595.57	36,397.90	2,802.33
9,083.36		1,559.60	606.43	154.63	19,764.82	20,406.96	642.14
2,209.44	638.05		248.10	63.26	7,026.64	7,326.74	300.10
2,298.19	679.00		264.02	67.32	7,256.45	8,963.13	1,706.68
8,949.52	2,519.65		979.74	249.84	27,935.78	32,180.27	4,244.49

SOUTHERN ONTARIO

COST OF POWER, AMOUNT BILLED AT INTERIM RATES,

For the Year

Municipality	Interim rate per kilowatt	Power and energy supplied during year		Share of power purchased, operating costs, and		
		Average of monthly peak loads corrected for power factor	Energy	Power supply		Bulk transmission
				based on energy	based on peak load	
	\$			\$	\$	\$
Drumbo.....	41.00	148.6	517.8	586.52	1,855.45	662.45
Dublin.....	47.80	83.4	432.3	489.68	1,041.35	371.79
Dundalk.....	40.90	354.4	1,164.4	1,318.94	4,425.12	1,513.25
Dundas.....	31.90	3,758.4	14,982.3	16,970.82	46,928.19	16,754.68
Dunnville.....	36.80	1,816.5	8,158.8	9,241.68	22,681.21	8,097.83
Durham.....	40.80	615.0	2,911.3	3,297.70	7,679.02	2,625.99
Dutton.....	44.60	243.6	1,038.4	1,176.22	3,041.64	1,085.95
East York Twp.....	33.40	19,816.9	99,184.8	112,349.09	247,438.04	88,342.34
Elmira.....	36.10	1,979.0	9,520.6	10,784.22	24,710.21	8,822.24
Elmvale.....	41.20	324.3	1,424.1	1,613.12	4,049.28	917.12
Elmwood.....	41.40	144.1	424.1	480.39	1,799.26	615.29
Elora.....	38.90	684.6	2,567.4	2,908.16	8,548.06	3,051.90
Embro.....	38.90	230.9	862.8	977.32	2,883.06	1,029.34
Erieau.....	46.40	234.7	1,004.0	1,137.26	2,930.51	1,046.28
Erie Beach.....	48.00	29.2	96.6	109.42	364.60	130.17
Erin.....	50.90	178.8	674.7	764.25	2,232.53	763.46
Essex.....	43.90	874.5	4,293.4	4,863.24	10,919.19	3,898.46
Etobicoke Twp.....	35.30	24,204.7	130,525.9	147,849.93	302,225.04	107,902.84
Exeter.....	40.90	1,210.9	5,434.0	6,155.23	15,119.56	5,398.11
Fergus.....	35.80	2,067.9	8,406.1	9,521.80	25,820.24	9,218.55
Finch.....	40.70	158.7	627.9	711.24	1,981.56	221.65
Flesherton.....	37.90	167.6	600.2	679.86	2,230.52	715.63
Fonthill.....	36.10	485.1	2,326.0	2,634.72	6,057.06	2,162.54
Forest.....	47.50	773.6	3,665.3	4,151.78	9,659.33	3,448.65
Forest Hill.....	32.90	7,687.3	40,272.3	45,617.44	95,985.26	37,312.31
Frankford.....	36.70	313.0	1,285.9	1,456.57	3,732.92	437.16
Galt.....	33.00	14,085.5	57,970.7	65,664.85	175,874.55	62,792.16
Georgetown.....	39.50	2,514.7	13,100.5	14,839.26	31,399.08	11,210.35
Glencoe.....	48.90	277.9	1,260.9	1,428.25	3,469.92	1,238.86
Goderich.....	42.20	2,315.6	11,491.5	13,016.71	28,913.07	10,322.78
Grand Valley.....	48.20	271.1	1,096.8	1,242.37	3,385.01	1,157.57
Granton.....	44.00	73.8	279.5	316.60	921.48	329.00
Gravenhurst.....	35.60	1,584.7	8,126.6	9,205.20	19,786.90	4,481.55
Grimsby.....	38.20	1,158.9	6,388.1	7,235.96	14,470.27	5,166.29
Guelph.....	33.00	15,240.2	74,220.5	84,071.41	190,292.39	67,939.74
Hagersville.....	36.60	1,194.4	4,255.6	4,820.42	14,913.53	5,324.55
Hamilton.....	32.10	172,706.4	1,009,824.1	1,143,852.88	2,156,448.95	769,912.93
Hanover.....	34.80	2,207.7	8,704.0	9,859.24	27,565.81	9,426.65
Harriston.....	42.00	745.1	3,294.8	3,732.10	9,303.48	3,321.60
Harrow.....	44.20	821.8	3,281.1	3,716.58	10,261.17	3,663.53

SYSTEM

AND BALANCE CREDITED OR CHARGED TO MUNICIPALITIES

Ended December 31, 1951

fixed charges	Special provisions			Share of surplus resulting from sales to other customers	Total cost of power and energy	Amount billed at interim rates	Balance credited or charged
Divisional costs, including transformation, transmission, and distribution	Frequency standardization	Stabilization of rates	Special contingencies				
\$	\$	\$	\$	\$	\$	\$	\$
2,133.83	520.10		202.24	51.57	5,909.02	6,094.29	185.27
1,039.41	291.90		113.50	28.94	3,318.69	3,988.08	669.39
4,591.60		1,240.40	482.32	122.98	13,448.65	14,493.57	1,044.92
14,867.33	13,154.40		5,114.96	1,304.20	112,486.18	119,894.27	7,408.09
17,533.66	6,357.75		2,472.15	630.34	65,753.94	66,847.21	1,093.27
6,185.33		2,152.50	836.98	213.44	22,564.08	25,092.34	2,528.26
4,311.16	852.60		331.52	84.53	10,714.56	10,866.05	151.49
78,933.46	69,359.15		26,969.61	6,876.64	616,515.05	661,885.55	45,370.50
15,309.17	6,926.50		2,693.30	686.73	68,558.91	71,441.58	2,882.67
5,695.91		1,135.05	441.35	112.53	13,739.30	13,361.50	377.80
2,196.78		504.35	196.11	50.00	5,742.18	5,966.42	224.24
7,513.28	2,396.10		931.70	237.56	25,111.64	26,633.18	1,521.54
2,429.10	808.15		314.24	80.12	8,361.09	8,980.05	618.96
3,509.73	821.45		319.41	81.44	9,683.20	10,892.01	1,208.81
480.41	102.20		39.74	10.13	1,216.41	1,400.00	183.59
2,550.34		625.80	243.34	62.05	7,117.67	9,099.22	1,981.55
12,883.39	3,060.75		1,190.14	303.46	36,511.71	38,391.65	1,879.94
135,723.01	84,716.45		32,941.14	8,399.24	802,959.17	854,426.76	51,467.59
14,801.76	4,238.15		1,647.96	420.19	46,940.58	49,524.78	2,584.20
17,095.44	7,237.65		2,814.29	717.58	70,990.39	74,031.70	3,041.31
1,808.19		555.45	215.98	55.07	5,439.00	6,459.09	1,020.09
932.11		586.60	228.09	58.16	5,314.65	6,352.65	1,038.00
3,308.43	1,697.85		660.19	168.33	16,352.46	17,510.28	1,157.82
12,945.96	2,707.60		1,052.82	268.45	33,697.69	36,747.97	3,050.28
29,500.50	26,905.55		10,461.95	2,667.56	243,115.45	252,913.52	9,798.07
1,992.88		1,095.50	425.97	108.61	9,032.39	11,487.09	2,454.70
60,064.34	49,299.25		19,169.52	4,887.79	427,976.88	464,819.85	36,842.97
24,397.05	8,801.45		3,422.36	872.62	93,196.93	99,331.63	6,134.70
3,694.69	972.65		378.21	96.43	11,086.15	13,591.36	2,505.21
29,701.65	8,104.60		3,151.39	803.53	92,406.67	97,717.27	5,310.60
5,547.96		948.85	368.95	94.07	12,556.64	13,064.59	507.95
931.86	258.30		100.44	25.61	2,832.07	3,246.85	414.78
14,208.20		5,546.45	2,156.68	549.90	54,835.08	56,413.55	1,578.47
11,804.68	4,056.15		1,577.19	402.15	43,908.39	44,268.07	359.68
64,553.05	53,340.70		20,741.00	5,288.48	475,649.81	502,925.50	27,275.69
9,926.61	4,180.40		1,625.51	414.47	40,376.55	43,713.80	3,337.25
622,958.47	604,472.40		235,043.04	59,930.62	5,472,758.05	5,543,875.91	71,117.86
17,866.83		7,726.95	3,004.55	766.09	74,683.94	76,829.41	2,145.47
7,999.19	2,607.85		1,014.04	258.56	27,719.70	31,292.45	3,572.75
12,202.17	2,876.30		1,118.42	285.17	33,553.00	36,321.71	2,768.71

SOUTHERN ONTARIO

COST OF POWER, AMOUNT BILLED AT INTERIM RATES,

For the Year

Municipality	Interim rate per kilowatt	Power and energy supplied during year		Share of power purchased, operating costs, and		
		Average of monthly peak loads corrected for power factor	Energy	Power supply		Bulk transmission
				based on energy	based on peak load	
	\$	kw	'000 kwh	\$	\$	\$
Hastings.....	45.30	212.4	863.2	977.77	2,652.07	296.65
Havelock.....	44.40	271.0	1,190.4	1,348.40	3,383.76	378.50
Hensall.....	43.30	339.4	1,356.8	1,536.88	4,237.82	1,513.02
Hespeler.....	34.50	3,573.0	17,065.8	19,330.86	44,613.24	15,928.18
Highgate.....	46.90	123.4	412.2	466.91	1,540.80	550.11
Holstein.....	48.50	40.0	159.6	180.78	499.44	170.80
Humberstone.....	35.20	763.5	3,634.8	4,117.23	9,533.23	3,403.63
Huntsville.....	40.10	1,830.9	9,641.6	10,921.28	22,861.01	5,177.81
Ingersoll.....	36.10	3,877.7	17,052.6	19,315.90	48,417.79	17,286.51
Iroquois.....	40.00	425.2	1,976.0	2,238.26	5,309.14	593.86
Jarvis.....	42.80	199.1	965.0	1,093.08	2,486.00	887.57
Kemptville.....	40.10	816.1	3,545.5	4,016.08	10,190.00	1,139.82
Kincardine.....	42.90	1,169.9	5,511.8	6,243.35	14,607.63	4,995.35
Kingston.....	32.80	20,835.5	106,664.5	120,821.53	260,156.49	29,100.33
Kingsville.....	42.60	921.9	4,245.6	4,809.10	11,511.04	4,109.77
Kirkfield.....	46.70	48.1	159.6	180.78	600.58	136.03
Kitchener.....	33.70	34,199.3	167,445.1	189,669.23	427,019.75	152,458.06
Lakefield.....	34.40	865.0	4,972.8	5,632.81	10,143.00	1,208.12
Lambeth.....	40.40	370.2	1,630.4	1,846.79	4,622.40	1,650.33
Lanark.....	47.40	150.4	586.6	664.46	1,877.93	210.06
Lancaster.....	52.20	91.7	420.4	476.20	1,144.99	128.07
La Salle.....	45.60	561.5	2,471.6	2,799.64	7,011.01	2,503.13
Leamington.....	43.50	2,795.7	14,592.7	16,529.51	34,907.71	12,463.03
Lindsay.....	40.00	4,638.5	22,166.6	25,108.66	57,917.29	6,478.46
Listowel.....	40.00	1,845.2	8,038.4	9,105.30	23,039.56	8,225.77
London.....	34.80	44,148.8	248,357.9	281,321.17	551,251.33	196,812.23
London Twp.....	37.50	869.0	3,944.7	4,468.26	10,850.52	3,873.94
Long Branch.....	35.50	3,380.8	17,473.5	19,792.67	42,213.39	15,071.37
Lucan.....	40.80	335.1	1,499.2	1,698.18	4,184.13	1,493.85
Lucknow.....	44.90	450.7	2,114.8	2,395.49	5,627.53	1,924.44
Lynden.....	39.40	160.5	609.4	690.28	2,004.03	715.50
Madoc.....	42.20	507.0	1,999.0	2,264.32	6,330.51	708.11
Magnetawan.....	52.20	17.4	29.0	32.85	217.26	49.21
Markdale.....	39.00	317.1	1,385.6	1,569.50	3,959.38	1,353.98
Markham.....	38.80	628.3	2,651.0	3,002.85	7,845.08	2,800.92
Marmora.....	48.60	246.3	1,059.2	1,199.78	3,075.35	344.00
Martintown.....	38.10	70.8	252.8	286.35	884.03	98.88
Maxville.....	42.00	193.9	792.2	897.34	2,421.07	270.81
Meaford.....	40.20	1,345.9	5,347.2	6,056.91	16,805.20	5,746.85
Merlin.....	44.20	148.5	583.6	661.06	1,854.20	662.00

SYSTEM

AND BALANCE CREDITED OR CHARGED TO MUNICIPALITIES

Ended December 31, 1951

fixed charges	Special provisions			Share of surplus resulting from sales to other customers	Total cost of power and energy	Amount billed at interim rates	Balance credited or charged
	Frequency standard-ization	Stabil-ization of rates	Special contingencies				
Divisional costs, including trans-formation, transmission, and distribution							
\$	\$	\$	\$	\$	\$	\$	\$
3,346.26		743.40	289.06	73.70	8,231.51	9,622.46	1,390.95
4,787.69		948.50	368.81	94.04	11,121.62	12,032.40	910.78
3,941.98	1,187.90		461.90	117.77	12,761.73	14,695.29	1,933.56
19,335.93	12,505.50		4,862.64	1,239.86	115,336.49	123,267.34	7,930.85
2,321.45	431.90		167.94	42.82	5,436.29	5,786.66	350.37
548.49		140.00	54.44	13.88	1,580.07	1,940.84	360.77
4,790.46	2,672.25		1,039.08	264.94	25,290.94	26,874.03	1,583.09
24,210.01		6,408.15	2,491.75	635.34	71,434.67	73,418.41	1,983.74
32,810.83	13,571.95		5,277.32	1,345.60	135,334.70	139,984.65	4,649.95
6,185.06		1,488.20	578.67	147.55	16,245.64	17,008.34	762.70
2,476.00	696.85		270.95	69.09	7,841.37	8,520.76	679.39
9,624.64		2,856.35	1,110.66	283.19	28,654.36	32,726.61	4,072.25
16,484.13		4,094.65	1,592.16	405.97	47,611.30	50,187.96	2,576.66
132,684.51		72,924.25	28,355.86	7,230.10	636,812.87	683,405.50	46,592.63
11,755.65	3,226.65		1,254.65	319.91	36,346.95	39,273.26	2,926.31
739.86		168.35	65.46	16.69	1,874.37	2,246.26	371.89
170,350.29	119,697.55		46,543.19	11,867.45	1,093,870.62	1,152,513.32	58,642.70
5,837.61		3,027.50	1,177.21	300.16	26,726.09	29,756.58	3,030.49
3,808.79	1,295.70		503.82	128.46	13,599.37	14,955.41	1,356.04
1,903.21		526.40	204.69	52.19	5,334.56	7,127.75	1,793.19
1,308.40		320.95	124.80	31.82	3,471.59	4,788.04	1,316.45
9,268.58	1,965.25		764.17	194.85	24,116.93	25,604.02	1,487.09
34,005.70	9,784.95		3,804.78	970.13	110,525.55	121,613.67	11,088.12
65,464.90		16,234.75	6,312.72	1,609.60	175,907.18	185,540.00	9,632.82
21,482.41	6,458.20		2,511.21	640.30	70,182.15	73,806.68	3,624.53
261,600.72	154,520.80		60,083.87	15,320.02	1,490,270.10	1,536,379.11	46,109.01
8,643.44	3,041.50		1,182.66	301.55	31,758.77	32,589.03	830.26
18,436.06	11,832.80		4,601.07	1,173.17	110,774.19	120,018.98	9,244.79
4,387.81	1,172.85		456.05	116.28	13,276.59	13,673.78	397.19
6,071.79		1,577.45	613.38	156.40	18,053.68	20,237.53	2,183.85
1,838.75	561.75		218.43	55.69	5,973.05	6,323.70	350.65
7,742.94		1,774.50	690.00	175.93	19,334.45	21,393.61	2,059.16
400.00		60.90	23.68	6.04	777.86	910.45	132.59
3,838.48		1,109.85	431.55	110.04	12,152.70	12,368.51	215.81
6,632.49	2,199.05		855.08	218.03	23,117.44	24,379.01	1,261.57
4,426.05		862.05	335.20	85.47	10,156.96	11,971.36	1,814.40
933.46		247.80	96.35	24.57	2,522.30	2,696.19	173.89
2,818.22		678.65	263.89	67.28	7,282.70	8,143.10	860.40
15,441.97		4,710.65	1,831.69	467.04	50,126.23	54,105.84	3,979.61
2,233.37	519.75		202.10	51.53	6,080.95	6,564.44	483.49

SOUTHERN ONTARIO

COST OF POWER, AMOUNT BILLED AT INTERIM RATES,

For the Year

Municipality	Interim rate per kilowatt	Power and energy supplied during year		Share of power purchased, operating costs, and		
		Average of monthly peak loads corrected for power factor	Energy	Power supply		Bulk transmission
				based on energy	based on peak load	
	\$	kw	'000 kwh	\$	\$	\$
Merrickville.....	39.20	288.9	1,224.0	1,386.46	3,391.51	403.50
Merriton.....	31.00	10,565.4	60,869.4	68,948.28	131,921.84	47,099.81
Midland.....	34.60	4,764.5	22,438.2	25,416.31	59,490.56	13,474.06
Mildmay.....	42.90	244.3	1,065.3	1,206.69	3,050.39	1,043.14
Millbrook.....	46.20	207.0	891.4	1,009.71	2,584.65	289.11
Milton.....	35.80	2,041.4	8,605.1	9,747.21	25,489.36	9,100.42
Milverton.....	40.90	621.8	2,081.6	2,357.88	7,763.93	2,771.94
Mimico.....	33.00	3,964.7	19,829.1	22,460.91	49,504.09	17,674.35
Mitchell.....	38.20	1,081.3	4,979.9	5,640.86	13,501.34	4,820.36
Moorefield.....	45.20	100.7	361.3	409.25	1,257.37	448.91
Morrisburg.....	40.70	652.0	3,307.3	3,746.26	8,141.01	910.63
Mount Brydges.....	43.90	164.0	683.2	773.88	2,047.74	731.10
Mount Forest.....	42.60	906.8	3,623.2	4,104.09	11,322.49	3,871.94
Napanee.....	39.70	1,974.0	9,211.5	10,434.10	24,647.79	2,757.03
Neustadt.....	40.50	119.4	469.0	531.25	1,490.85	509.83
Newboro.....	45.70	53.0	187.4	212.27	661.77	74.02
Newburgh.....	48.40	96.1	396.2	448.79	1,199.93	134.22
Newbury.....	49.60	76.0	313.8	355.45	948.95	338.80
Newcastle.....	41.00	409.5	1,615.6	1,830.03	5,113.10	571.94
New Hamburg.....	38.80	926.7	3,232.4	3,661.42	11,570.98	4,131.16
Newmarket.....	41.20	2,817.9	11,983.3	13,573.78	35,184.90	12,562.00
New Toronto.....	35.10	11,334.1	63,969.6	72,459.96	141,519.99	50,526.62
Niagara.....	31.80	1,082.0	5,851.1	6,627.69	13,793.67	4,823.48
Niagara Falls.....	29.10	12,354.0	64,599.9	73,173.91	136,067.10	55,073.26
North York Twp.....	35.10	36,243.3	184,772.7	209,296.63	452,541.58	173,356.59
Norwich.....	38.80	634.9	2,727.2	3,089.17	7,927.50	2,830.34
Norwood.....	42.70	328.7	1,340.4	1,518.30	4,104.22	459.09
Oakville.....	36.80	3,777.3	17,938.8	20,319.73	47,164.18	16,838.94
Oil Springs.....	49.30	173.8	1,000.2	1,132.95	2,170.10	774.79
Omeme.....	42.70	196.6	868.3	983.55	2,454.79	274.59
Orangeville.....	42.80	1,215.5	5,800.0	6,569.80	15,177.00	5,190.06
Orono.....	42.90	185.2	736.0	833.69	2,312.45	258.66
Oshawa.....	36.80	28,059.8	139,721.8	158,266.36	350,360.65	39,190.29
Ottawa.....	28.00	57,745.4	286,337.8	324,341.95	696,814.99	80,651.29
Otterville.....	41.50	190.5	839.0	950.36	2,378.62	849.24
Owen Sound.....	36.10	8,123.6	36,572.6	41,426.69	101,433.00	34,686.93
Paisley.....	44.00	246.8	1,016.0	1,150.85	3,081.60	1,053.82
Palmerston.....	40.70	719.8	3,755.9	4,254.40	8,987.58	3,208.82
Paris.....	34.30	2,307.8	10,575.2	11,978.79	28,815.69	10,288.01
Parkhill.....	45.70	441.0	1,917.5	2,172.00	5,506.42	1,965.95

SYSTEM

AND BALANCE CREDITED OR CHARGED TO MUNICIPALITIES

Ended December 31, 1951

fixed charges	Special provisions			Share of surplus resulting from sales to other customers	Total cost of power and energy	Amount billed at interim rates	Balance credited or charged
	Frequency standard-ization	Stabil-ization of rates	Special contingencies				
Divisional costs, including trans-formation, transmission, and distribution							
\$	\$	\$	\$	\$	\$	\$	\$
1,319.68		1,011.15	393.18	100.25	7,805.23	11,323.57	3,518.34
45,122.62	36,978.90		14,378.88	3,666.29	340,784.04	327,529.97	13,254.07
40,253.52		16,675.75	6,484.20	1,653.32	160,141.08	164,850.81	4,709.73
2,648.91		855.05	332.48	84.77	9,051.89	10,479.03	1,427.14
3,817.46		724.50	281.71	71.83	8,635.31	9,564.14	928.83
18,366.19	7,144.90		2,778.22	708.38	71,917.92	73,083.90	1,165.98
8,257.24	2,176.30		846.23	215.77	23,957.75	25,431.27	1,473.52
15,787.30	13,876.45		5,395.72	1,375.79	123,323.03	130,835.37	7,512.34
9,278.00	3,784.55		1,471.58	375.22	38,121.47	41,305.97	3,184.50
1,087.13	352.45		137.05	34.94	3,657.22	4,550.89	893.67
8,649.43		2,282.00	887.33	226.25	24,390.41	26,538.07	2,147.66
2,188.10	574.00		223.19	56.91	6,481.10	7,198.49	717.39
10,048.71		3,173.80	1,234.10	314.67	33,440.46	38,627.55	5,187.09
26,630.27		6,909.00	2,686.50	684.99	73,379.70	78,366.80	4,987.10
1,123.98		417.90	162.50	41.43	4,194.88	4,836.37	641.49
678.56		185.50	72.13	18.39	1,865.86	2,422.86	557.00
1,346.76		336.35	130.79	33.35	3,563.49	4,651.63	1,088.14
1,313.29	266.00		103.43	26.37	3,299.55	3,767.54	467.99
6,307.95		1,433.25	557.30	142.10	15,671.47	16,787.79	1,116.32
9,624.71	3,243.45		1,261.18	321.57	33,171.33	35,955.00	2,783.67
16,546.11	9,862.65		3,834.99	977.84	90,586.59	116,098.16	25,511.57
57,146.76	39,669.35		15,425.03	3,933.03	372,814.68	397,828.09	25,013.41
3,430.43	3,787.00		1,472.54	375.46	33,559.35	34,408.64	849.29
19,647.46	43,239.00		16,813.05	4,286.95	339,726.83	359,500.39	19,773.56
176,772.36	126,851.55		49,324.96	12,576.74	1,175,566.93	1,272,140.41	96,573.48
7,268.62	2,222.15		864.06	220.32	23,981.52	24,632.18	650.66
5,387.41		1,150.45	447.34	114.06	12,952.75	14,035.47	1,082.72
33,710.64	13,220.55		5,140.68	1,310.76	135,083.96	139,006.18	3,922.22
3,106.21	608.30		236.53	60.31	7,968.57	8,570.38	601.81
2,853.17		688.10	267.56	68.22	7,453.54	8,396.59	943.05
16,640.25		4,254.25	1,654.22	421.79	49,063.79	52,023.03	2,959.24
2,727.92		648.20	252.05	64.27	6,968.70	7,945.42	976.72
257,060.83		98,209.30	38,187.70	9,736.99	931,538.14	1,032,600.64	101,062.50
235,900.37		202,108.90	78,588.02	20,038.16	1,598,367.36	1,616,870.73	18,503.37
2,160.40	666.75		259.26	66.11	7,198.52	7,907.11	708.59
53,619.56		28,432.60	11,055.73	2,818.96	267,835.55	293,261.03	25,425.48
3,763.34		863.80	335.88	85.64	10,163.65	10,858.82	695.17
6,310.14	2,519.30		979.60	249.78	26,010.06	23,295.86	3,285.80
12,024.05	8,077.30		3,140.78	800.83	73,523.79	79,157.52	5,633.73
6,652.44	1,543.50		600.17	153.03	18,287.45	20,155.58	1,868.13

SOUTHERN ONTARIO

COST OF POWER, AMOUNT BILLED AT INTERIM RATES,

For the Year

Municipality	Interim rate per kilowatt	Power and energy supplied during year		Share of power purchased, operating costs, and		
		Average of monthly peak loads corrected for power factor	Energy	Power supply		Bulk transmission
				based on energy	based on peak load	
	\$			\$	\$	\$
Parry Sound.....	42.20	708.7	2,309.7	2,616.25	8,848.98	2,004.21
Penetanguishene.....	36.30	1,479.0	6,811.2	7,715.22	18,467.10	4,182.63
Perth.....	35.50	2,339.6	9,560.0	10,828.85	29,212.75	3,267.65
Peterborough.....	32.80	22,122.6	114,049.4	129,186.59	276,227.50	30,897.98
Petrolia.....	47.50	1,105.2	6,016.9	6,815.49	13,799.76	4,926.90
Picton.....	38.80	2,054.8	9,680.5	10,965.34	25,656.67	2,869.88
Plattsville.....	42.10	283.2	972.2	1,101.24	3,536.10	1,262.49
Point Edward.....	45.50	2,210.4	8,380.0	9,492.23	27,599.53	9,853.81
Port Colborne.....	35.50	2,455.5	13,546.6	15,344.57	30,659.90	10,946.45
Port Credit.....	36.10	1,722.7	9,014.4	10,210.84	21,510.00	7,679.67
Port Dalhousie.....	34.80	1,102.4	6,379.2	7,225.88	13,764.80	4,914.42
Port Dover.....	40.00	807.5	3,872.8	4,386.82	10,082.62	3,599.78
Port Elgin.....	45.50	747.0	3,256.0	3,688.15	9,327.20	3,189.61
Port Hope.....	40.80	4,275.4	21,144.8	23,951.24	53,383.55	5,971.32
Port McNicoll.....	43.90	522.5	1,422.3	1,611.07	6,524.05	1,477.64
Port Perry.....	41.00	539.6	2,326.0	2,634.73	6,737.56	1,526.00
Port Rowan.....	46.20	170.1	680.0	770.25	2,123.91	758.29
Port Stanley.....	41.40	862.2	3,950.2	4,474.49	10,765.61	3,843.63
Prescott.....	38.70	1,538.2	6,470.4	7,329.18	19,206.29	2,148.36
Preston.....	32.60	5,078.8	18,190.7	20,605.06	63,414.98	22,640.93
Priceville.....	49.31	18.7	66.6	75.44	233.49	79.85
Princeton.....	43.70	162.4	633.2	717.24	2,027.77	723.97
Queenston.....	32.80	186.1	943.6	1,068.84	2,044.13	829.62
Renfrew.....	41.50	1,393.7	5,150.1	5,833.65	17,402.04	1,946.54
Richmond.....	43.60	167.4	651.6	738.08	2,090.19	233.80
Richmond Hill.....	37.40	967.0	4,675.2	5,295.72	12,074.17	4,310.82
Ridgetown.....	44.50	660.7	3,148.8	3,566.72	8,249.65	2,945.35
Ripley.....	49.50	151.1	580.4	657.43	1,886.67	645.18
Riverside.....	41.50	2,572.9	12,935.7	14,652.59	32,125.78	11,469.81
Rockwood.....	40.20	233.7	997.4	1,129.78	2,918.03	1,041.82
Rodney.....	47.50	221.0	1,019.6	1,154.93	2,759.45	985.20
Rosseau.....	45.70	53.2	186.3	211.03	664.26	150.45
Russell.....	49.40	127.2	498.5	564.66	1,588.25	177.66
St. Catharines.....	31.40	31,898.0	156,221.0	176,955.41	398,285.23	142,199.03
St. Clair Beach.....	43.60	159.8	757.8	858.38	1,995.30	712.38
St. George.....	39.30	226.0	992.0	1,123.66	2,821.89	1,007.49
St. Jacobs.....	36.10	358.7	1,285.1	1,455.66	4,478.81	1,599.06
St. Marys.....	36.70	2,127.9	10,178.4	11,529.33	26,569.42	9,486.03
St. Thomas.....	36.10	9,115.4	51,316.8	58,127.82	113,816.82	40,635.81
Sarnia.....	40.60	14,731.0	90,341.1	102,331.61	183,934.41	65,669.76

SYSTEM

AND BALANCE CREDITED OR CHARGED TO MUNICIPALITIES

Ended December 31, 1951

fixed charges	Special provisions			Share of surplus resulting from sales to other customers	Total cost of power and energy	Amount billed at interim rates	Balance credited or charged
	Frequency standard-ization	Stabil-ization of rates	Special contingencies				
\$	\$	\$	\$	\$	\$	\$	\$
9,593.42		2,480.45	964.50	245.93	26,261.88	29,908.20	3,646.32
15,686.44		5,176.50	2,012.83	513.23	52,727.49	53,689.81	962.32
24,408.44		8,188.60	3,184.06	811.86	78,278.49	83,054.32	4,775.83
165,757.55		77,429.10	30,107.53	7,676.73	701,929.52	725,621.82	23,692.30
15,046.26	3,868.20		1,504.12	383.51	45,577.22	52,908.65	7,331.43
25,459.22		7,191.80	2,796.46	713.03	74,226.34	79,724.32	5,497.98
3,564.96	991.20		385.42	98.27	10,743.14	11,923.07	1,179.93
24,526.96	7,736.40		3,008.22	767.03	81,450.12	100,572.82	19,122.70
14,887.71	8,594.25		3,341.79	852.08	82,922.59	87,171.71	4,249.12
12,818.66	6,029.45		2,344.49	597.79	59,995.32	62,190.96	2,195.64
7,963.75	3,858.40		1,500.30	382.54	38,845.01	38,364.97	480.04
7,816.83	2,826.25		1,098.96	280.21	29,531.05	32,300.04	2,768.99
10,797.30		2,614.50	1,016.62	259.22	30,374.16	33,986.20	3,612.04
63,214.61		14,963.90	5,818.56	1,483.60	165,819.58	174,436.66	8,617.08
5,579.62		1,828.75	711.09	181.31	17,550.91	19,231.72	1,680.81
7,130.27		1,888.60	734.36	187.25	20,464.27	22,121.54	1,657.27
2,359.48	595.35		231.50	59.03	6,779.75	7,856.29	1,076.54
10,464.59	3,017.70		1,173.40	299.19	33,440.23	35,696.79	2,256.56
21,241.17		5,383.70	2,093.40	533.77	56,868.33	59,528.97	2,660.64
22,917.13	17,775.80		6,911.94	1,762.39	152,503.45	165,567.80	13,064.35
385.27		65.45	25.45	6.49	858.46	922.08	63.62
2,031.67	568.40		221.02	56.35	6,233.72	7,098.32	864.60
1,119.74	651.35		253.28	64.58	5,902.38	6,103.54	201.16
14,551.13		4,877.95	1,896.74	483.63	46,024.42	57,839.92	11,815.50
1,683.35		585.90	227.82	58.09	5,501.05	7,297.91	1,796.86
10,047.32	3,384.50		1,316.03	335.56	36,093.00	36,165.46	72.46
10,407.63	2,312.45		899.17	229.27	28,151.70	29,398.90	1,247.20
2,287.01		528.85	205.64	52.43	6,158.35	7,480.68	1,322.33
32,078.58	9,005.15		3,501.56	892.82	101,940.65	106,773.94	4,833.29
2,974.09	817.95		318.05	81.10	9,118.62	9,394.04	275.42
4,032.86	773.50		300.77	76.69	9,930.02	10,499.47	569.45
766.57		186.20	72.40	18.46	2,032.45	2,428.96	396.51
1,349.67		445.20	173.12	44.14	4,254.42	6,283.25	2,028.83
132,728.70	111,643.00		43,411.26	11,068.88	994,153.75	1,001,597.98	7,444.23
2,109.48	559.30		217.48	55.45	6,396.87	6,969.09	572.22
2,416.33	791.00		307.58	78.42	8,389.53	8,881.80	492.27
3,191.05	1,255.45		488.17	124.47	12,343.73	12,949.93	606.20
12,552.17	7,447.65		2,895.94	738.40	69,742.14	78,092.39	8,350.25
55,013.35	31,903.90		12,405.51	3,163.12	308,740.09	329,066.55	20,326.46
117,044.53	51,558.50		20,048.01	5,111.79	535,475.03	598,080.27	62,605.24

SOUTHERN ONTARIO

COST OF POWER, AMOUNT BILLED AT INTERIM RATES,
For the Year

Municipality	Interim rate per kilowatt	Power and energy supplied during year		Share of power purchased, operating costs, and		
		Average of monthly peak loads corrected for power factor	Energy	Power supply		Bulk transmission
				based on energy	based on peak load	
	\$			\$	\$	\$
Scarborough Twp.....	36.10	16,669.9	81,390.3	92,192.82	208,143.93	74,313.24
Seaforth.....	38.80	1,179.0	4,792.5	5,428.58	14,721.24	5,255.90
Sheilburne.....	44.40	490.9	2,087.0	2,364.00	6,129.48	2,096.09
Simcoe.....	34.40	3,222.0	15,439.4	17,556.56	40,230.58	14,363.45
Smiths Falls.....	33.60	4,187.5	18,550.5	21,012.61	52,286.02	5,848.56
Smithville.....	37.20	397.5	1,383.9	1,567.58	4,963.27	1,772.03
Southampton.....	44.90	755.6	3,361.0	3,807.09	9,434.58	3,226.33
Springfield.....	43.90	117.7	473.8	536.69	1,469.63	524.70
Stamford Twp.....	28.40	5,801.1	28,682.1	32,488.93	63,748.70	25,860.89
Stayner.....	38.20	468.3	1,871.2	2,119.55	5,847.29	1,324.36
Stirling.....	34.30	517.3	2,243.3	2,541.04	6,459.12	722.50
Stoney Creek.....	34.90	746.7	3,790.1	4,293.14	9,323.46	3,328.74
Stouffville.....	39.50	790.4	3,089.8	3,499.89	9,869.11	3,523.55
Stratford.....	35.00	9,136.2	48,505.2	54,943.05	114,076.50	40,728.53
Strathroy.....	40.10	1,931.1	9,437.9	10,690.54	24,112.12	8,608.71
Streetsville.....	36.80	777.9	4,060.6	4,599.54	9,713.03	3,467.82
Sunderland.....	41.50	226.3	827.6	937.44	2,825.63	639.98
Sutton.....	42.50	541.6	2,299.4	2,604.59	6,762.53	2,414.41
Swansea.....	36.70	3,559.2	19,163.1	21,706.52	44,440.93	16,259.76
Tara.....	44.90	184.6	736.8	834.59	2,304.95	788.22
Tavistock.....	38.00	746.5	3,126.1	3,541.01	9,320.95	3,327.84
Tecumseh.....	42.90	721.2	3,655.8	4,141.02	9,005.06	3,215.06
Teeswater.....	44.90	294.7	1,292.0	1,463.49	3,679.69	1,258.34
Thamesford.....	40.20	337.8	1,323.4	1,499.05	4,217.85	1,505.89
Thamesville.....	43.20	373.8	1,460.0	1,653.78	4,667.35	1,666.37
Thedford.....	52.20	208.8	879.1	995.78	2,607.12	930.82
Thornbury.....	46.20	250.7	762.3	863.48	3,130.29	1,070.46
Thorndale.....	41.40	156.6	530.3	600.68	1,955.35	698.11
Thornton.....	43.20	56.4	186.8	211.59	704.22	159.50
Thorold.....	34.70	3,662.3	22,998.8	26,051.31	45,728.26	16,326.27
Tilbury.....	42.70	1,119.8	4,847.9	5,491.34	13,982.07	4,991.99
Tillsonburg.....	37.80	2,515.0	10,528.4	11,925.78	31,402.83	11,211.69
Toronto.....	33.10	395,260.3	2,211,205.7	2,504,687.70	4,935,304.42	1,929,495.09
Toronto Twp.....	36.10	8,952.8	45,255.0	51,261.46	111,786.57	39,910.95
Tottenham.....	52.20	204.9	855.0	968.48	2,558.42	579.46
Trafalgar Twp.....	37.90	1,563.1	7,100.0	8,042.35	19,517.20	6,968.19
Trenton.....	29.70	6,799.1	34,840.2	39,464.36	81,617.53	9,496.11
Tweed.....	45.00	565.2	2,625.1	2,973.52	7,057.21	789.40
Uxbridge.....	42.40	652.8	2,846.4	3,224.19	8,151.00	1,846.13
Victoria Harbour.....	43.00	152.9	647.6	733.55	1,909.14	432.40

SYSTEM

AND BALANCE CREDITED OR CHARGED TO MUNICIPALITIES

Ended December 31, 1951

fixed charges	Special provisions			Share of surplus resulting from sales to other customers	Total cost of power and energy	Amount billed at interim rates	Balance credited or charged
	Frequency standard-ization	Stabil-ization of rates	Special contingencies				
Divisional costs, including trans-formation, transmission, and distribution							
\$	\$	\$	\$	\$	\$	\$	\$
90,567.28	58,344.65		22,686.73	5,784.60	540,464.05	601,784.29	61,320.24
7,399.63	4,126.50		1,604.55	409.12	38,127.28	45,744.23	7,616.95
7,309.62		1,718.15	668.09	170.35	20,115.08	21,795.59	1,680.51
16,690.77	11,277.00		4,384.95	1,118.06	103,385.25	110,838.23	7,452.98
27,161.24		14,656.25	5,698.94	1,453.10	125,210.52	140,699.72	15,489.20
4,483.12	1,391.25		540.97	137.94	14,580.28	14,785.76	205.48
10,856.64		2,644.60	1,028.30	262.20	30,735.34	33,924.17	3,188.83
1,489.41	411.95		160.18	40.84	4,551.72	5,168.12	616.40
9,239.87	20,303.85		7,894.95	2,013.03	157,524.16	164,751.94	7,227.78
5,861.69		1,639.05	637.33	162.50	17,266.77	17,890.33	623.56
5,079.88		1,810.55	704.02	179.51	17,137.60	17,741.68	604.08
4,685.97	2,613.45		1,016.21	259.11	25,001.86	26,059.51	1,057.65
7,843.29	2,766.40		1,075.69	274.28	28,303.65	31,218.82	2,915.17
49,924.98	31,976.70		12,433.82	3,170.34	300,913.24	319,765.82	18,852.58
13,247.30	6,758.85		2,628.11	670.11	65,375.52	77,438.45	12,062.93
5,351.81	2,722.65		1,058.68	269.93	26,643.60	28,624.88	1,981.28
2,928.45		792.05	307.98	78.53	8,353.00	9,390.38	1,037.38
6,455.90	1,895.60		737.09	187.94	20,682.18	23,019.41	2,337.23
21,323.44	12,457.20		4,843.86	1,235.07	119,796.64	130,624.15	10,827.51
3,283.20		646.10	251.23	64.06	8,044.23	8,288.90	244.67
7,550.47	2,612.75		1,015.94	259.04	27,109.92	28,366.36	1,256.44
9,355.17	2,524.20		981.51	250.26	28,971.76	30,937.32	1,965.56
5,487.03		1,031.45	401.07	102.26	13,218.81	13,232.00	13.19
5,014.03	1,182.30		459.73	117.22	13,761.63	13,578.88	182.75
6,655.09	1,308.30		508.72	129.70	16,329.91	16,149.60	180.31
3,496.26	730.80		284.16	72.46	8,972.48	10,901.51	1,929.03
3,865.16		877.45	341.19	87.00	10,061.03	11,583.08	1,522.05
1,757.76	548.10		213.12	54.34	5,718.78	6,484.24	765.46
563.50		197.40	76.76	19.57	1,893.40	2,437.56	544.16
13,788.41	12,818.05		4,984.17	1,270.85	118,425.62	127,080.08	8,654.46
17,452.03	3,919.30		1,523.98	388.58	46,972.13	47,815.46	843.33
14,980.32	8,802.50		3,422.76	872.73	80,873.15	95,067.30	14,194.15
1,337,017.32	1,383,411.05		537,925.54	137,158.76	12,490,682.36	13,083,114.23	592,431.87
56,255.30	31,334.80		12,184.22	3,106.70	299,626.60	323,195.15	23,568.55
2,911.06		717.15	278.86	71.10	7,942.33	10,697.94	2,755.61
13,960.96	5,470.85		2,127.29	542.40	55,544.44	59,240.52	3,696.08
33,142.73		23,796.85	9,253.17	2,359.35	194,411.40	201,931.75	7,520.35
9,369.77		1,978.20	769.20	196.13	22,741.17	25,434.72	2,693.55
8,832.91		2,284.80	888.42	226.53	25,000.92	27,679.77	2,678.85
3,049.31		535.15	208.09	53.06	6,814.58	6,573.98	240.60

SOUTHERN ONTARIO

COST OF POWER, AMOUNT BILLED AT INTERIM RATES,

For the Year

Municipality	Interim rate per kilowatt	Power and energy supplied during year		Share of power purchased, operating costs, and		
		Average of monthly peak loads corrected for power factor	Energy	Power supply		Bulk transmission
				based on energy	based on peak load	
	\$			\$	\$	\$
Walkerton.....	35.50	1,519.8	6,059.2	6,863.41	18,976.54	6,489.39
Wallaceburg.....	39.50	6,786.7	37,276.0	42,223.45	84,740.19	30,254.63
Wardsville.....	51.50	106.1	519.8	588.79	1,324.79	472.99
Warkworth.....	45.80	155.4	552.8	626.17	1,940.35	217.04
Waterdown.....	37.50	511.0	2,278.6	2,581.03	6,380.45	2,278.00
Waterford.....	37.50	577.4	2,494.0	2,825.02	7,209.54	2,574.01
Waterloo.....	33.40	7,820.4	35,315.6	40,002.86	97,647.18	34,862.79
Watford.....	48.50	607.2	2,263.4	2,563.81	7,581.66	2,706.85
Waubashene.....	38.80	180.7	736.0	833.69	2,256.26	511.02
Welland.....	31.40	11,290.5	58,191.8	65,915.30	140,975.59	50,332.25
Wellesley.....	41.10	216.9	792.6	897.80	2,708.26	966.92
Wellington.....	40.00	375.2	1,472.9	1,668.39	4,684.83	524.03
West Lorne.....	43.50	618.8	2,143.9	2,428.45	7,726.47	2,758.57
Weston.....	34.10	5,727.1	30,521.7	34,572.69	71,509.79	27,935.73
Westport.....	45.30	200.5	776.8	879.90	2,503.49	280.03
Wheatley.....	46.90	397.5	1,750.2	1,982.50	4,963.27	1,772.03
Whitby.....	36.10	2,257.5	11,460.1	12,981.14	28,187.62	3,152.98
Warton.....	46.70	601.7	3,272.8	3,707.18	7,512.95	2,569.20
Williamsburg.....	43.20	143.8	586.6	664.46	1,795.51	200.84
Winchester.....	40.40	614.3	2,440.4	2,764.30	7,670.28	857.97
Windermere.....	45.10	86.8	314.4	356.13	1,083.81	245.47
Windsor.....	37.70	58,954.6	292,697.3	331,545.51	736,119.72	262,815.44
Wingham.....	42.60	1,259.2	5,661.4	6,412.81	15,722.67	5,376.65
Woodbridge.....	35.00	1,449.4	7,136.3	8,083.46	18,097.52	7,070.63
Woodstock.....	33.80	10,001.7	48,771.5	55,244.69	124,883.36	44,586.87
Woodville.....	46.90	105.0	433.2	490.70	1,311.05	296.94
Wyoming.....	45.50	175.9	602.5	682.47	2,196.35	784.15
York Twp.....	32.90	31,125.9	166,644.9	188,762.82	388,644.62	151,378.34
Zurich.....	49.10	219.5	778.8	882.17	2,740.76	978.51
Ontario Central Reformatory.....	36.10	298.9	1,374.0	1,556.36	3,732.13	1,332.48
Total—Municipalities.....		1,470,653.6	7,707,577.5	8,730,564.77	18,307,535.47	6,076,695.13
Total—Rural Power District.....		227,426.0	1,039,648.6	1,175,417.73	2,843,471.04	837,081.00
Total—Companies.....		504,921.1	4,846,239.3	4,639,006.65	6,254,878.95	2,001,196.54
Total—Local Distribution Systems.....		1,358.1	5,805.3	6,575.81	17,265.45	5,079.45
Grand Total.....		2,204,358.8	13,599,270.7	14,551,564.96	27,423,150.91	8,920,052.12

See Notes on following pages

SYSTEM

AND BALANCE CREDITED OR CHARGED TO MUNICIPALITIES

Ended December 31, 1951

fixed charges	Special provisions			Share of surplus resulting from sales to other customers	Total cost of power and energy	Amount billed at interim rates	Balance credited or charged
	Frequency standard-ization	Stabil-ization of rates	Special contingencies				
\$	\$	\$	\$	\$	\$	\$	\$
12,215.43		5,319.30	2,068.36	527.38	51,405.05	53,952.30	2,547.25
66,450.43	23,753.45		9,236.29	2,355.04	254,303.40	268,074.63	13,771.23
1,770.99	371.35		144.40	36.82	4,636.49	5,465.85	829.36
2,216.02		543.90	211.49	53.93	5,701.04	7,118.88	1,417.84
3,977.80	1,788.50		695.44	177.32	17,523.90	19,160.60	1,636.70
5,489.61	2,020.90		785.81	200.36	20,704.53	21,649.99	945.46
39,345.57	27,371.40		10,643.10	2,713.75	247,159.15	261,201.93	14,042.78
7,133.79	2,125.20		826.36	210.70	22,726.97	29,447.16	6,720.19
2,886.12		632.45	245.92	62.70	7,302.76	7,010.20	292.56
45,212.98	39,516.75		15,365.69	3,917.90	353,400.66	354,523.00	1,122.34
2,372.21	759.15		295.19	75.27	7,924.26	8,913.20	988.94
5,444.36		1,313.20	510.62	130.20	14,015.23	15,009.00	993.77
10,171.16	2,165.80		842.15	214.73	25,877.87	26,916.70	1,038.83
26,960.41	20,044.85		7,794.24	1,987.35	186,830.36	195,295.50	8,465.14
2,611.73		701.75	272.87	69.58	7,180.19	9,083.02	1,902.83
6,333.50	1,391.25		540.97	137.94	16,845.58	18,640.77	1,795.19
21,286.41		7,901.25	3,072.32	783.37	75,798.35	81,496.33	5,697.98
9,153.11		2,105.95	818.88	208.80	25,658.47	28,099.36	2,440.89
2,714.19		503.30	195.70	49.90	6,024.10	6,212.16	188.06
7,004.72		2,150.05	836.04	213.17	21,070.19	24,819.39	3,749.20
1,022.91		303.80	118.13	30.12	3,100.13	3,913.91	813.78
534,006.38	206,341.10		80,233.67	20,457.75	2,130,604.07	2,222,589.03	91,984.96
14,452.24		4,407.20	1,713.70	436.95	47,648.32	53,642.63	5,994.31
10,653.85	5,072.90		1,972.55	502.95	50,447.96	50,728.98	281.02
50,384.89	35,005.95		13,611.71	3,470.68	320,246.79	338,056.88	17,810.09
1,811.63		367.50	142.90	36.44	4,384.28	4,924.47	540.19
2,605.41	615.65		239.39	61.04	7,062.38	8,003.42	941.04
108,908.40	108,940.65		42,360.48	10,800.96	978,194.35	1,024,040.71	45,846.36
3,244.75	768.25		298.73	76.17	8,837.00	10,778.67	1,941.67
1,450.13	1,046.15		406.78	103.72	9,420.31	10,789.97	1,369.66
8,206,526.11	4,243,498.00	903,789.60	2,001,471.26	510,329.59	47,959,750.75	50,377,699.21	2,417,948.46
2,317,505.14	521,473.40	274,517.60	309,513.13	78,918.81	8,200,060.23	8,200,060.23	
2,225,920.07	2,565,878.61	299,654.60	687,167.31	571,121.35	19,244,824.08	19,244,824.08	
54,227.54	2,431.45	2,321.90	1,848.30	18,127.05	107,876.95	107,876.95	
12,804,178.86	7,333,281.46	1,480,283.70	3,000,000.00		75,512,512.01	77,930,460.47	2,417,948.46

THUNDER BAY

COST OF POWER, AMOUNT BILLED AT INTERIM RATES,

For the year ended

Municipality	Interim rate per kilowatt	Power and energy supplied during year	
		Average of monthly peak loads corrected for power factor	Energy 000 kwh
	\$		
Fort William.....	31.50	24,877.6	146,269.4
Nipigon Twp.....	32.10	591.6	3,030.4
Port Arthur.....	31.50	26,798.9	130,345.1
Red Rock Imp. Dist.....	32.10	352.3	1,585.2
Schreiber Twp.....	35.00	402.5	2,098.4
Terrace Bay Imp. Dist.....	35.00	728.8	4,163.2
Total—Municipalities.....		53,751.7	287,491.7
Total—Rural Power District.....		2,022.6	9,986.7
Total—Companies.....		95,425.9	978,461.8
Total—Rainy River District (N.O.P.).....	23.03	21,699.3	135,272.6
Total—Mining Area (Mines).....		7,327.8	50,648.9
Total—Mining Area (Townsites).....		911.5	4,725.6
Grand Total.....		181,138.8	1,466,587.3

Notes on Cost of

SOUTHERN ONTARIO SYSTEM

1. The items shown above under the heading "Share of power purchased, operating costs, and fixed charges" total \$63,698,946.85 and consist of the following costs as shown in the statement of operations:

Cost of power purchased.....	\$13,805,065.80
Operating, maintenance, and administrative expenses.....	17,743,394.20
Interest.....	19,340,964.36
Provision for depreciation.....	4,970,975.45
Provision for contingencies and obsolescence (excluding special provision, \$3,000,000 see note 2 below).....	2,352,989.98
Provision for sinking fund.....	5,485,557.06
	<u>\$63,698,946.85</u>

2. The special provision for contingencies consists of a charge for the amortization of emergency generating facilities at the rate of \$1.36 per kilowatt on the average monthly peak load supplied to all customers in the Southern Ontario System.

3. The special provision for frequency standardization was at the rate of \$3.50 per kilowatt on the average monthly peak load supplied to all customers in the Niagara Division amounting to \$6,234,972.10 plus the appropriation of the revenue from the export of surplus 60-cycle energy amounting to \$1,098,309.36. The latter amount is included in the companies' provision of \$2,565,878.61.

4. The special provision for stabilization of rates was at the rate of \$3.50 per kilowatt on the average monthly peak load supplied to all customers in the Georgian Bay and Eastern Ontario Divisions.

SYSTEM

AND BALANCE CREDITED OR CHARGED TO MUNICIPALITIES

December 31, 1951

Share of power purchased, operating costs, and fixed charges			Provision for stabilization of rates	Total cost of power and energy	Amount billed at interim rates	Balance credited or <i>charged</i>
Power supply		Division costs, includ- ing trans- formation, transmission, and distribution				
based on energy	based on peak load					
\$	\$	\$	\$	\$	\$	\$
201,905.78	418,455.56	132,009.90		752,371.24	783,642.81	31,271.57
4,183.07	9,951.05	6,253.31		20,387.43	18,989.79	<i>1,397.64</i>
179,924.37	450,772.93	133,746.15		764,443.45	844,163.21	79,719.76
2,188.16	5,925.89	1,928.53		10,042.58	11,308.28	1,265.70
2,896.57	7,513.72	9,289.48		19,699.77	14,088.94	<i>5,610.83</i>
5,746.75	13,604.97	8,454.05		27,805.77	25,507.40	<i>2,298.37</i>
396,844.70	906,224.12	291,681.42		1,594,750.24	1,697,700.43	102,950.19
13,785.33	34,123.26	36,428.94		84,337.53	84,337.53	
965,424.33	1,605,652.75	301,419.38		2,872,496.46	2,448,645.92	<i>*423,850.54</i>
186,726.14	364,994.72	57,903.38		609,624.24	609,624.24	
69,914.17	123,257.82	77,829.18	<i>331.86</i>	270,669.31	270,669.31	
6,523.07	15,331.97	41,696.78	37,734.50	101,286.32	101,286.32	
1,639,217.74	3,049,584.64	806,959.08	37,402.64	5,533,164.10	5,212,263.75	<i>320,900.35</i>

*Charged to Reserve for Contingencies and Obsolescence

Power Statements

THUNDER BAY SYSTEM

1. The items shown above under the heading "Share of power purchased, operating costs, and fixed charges" total \$5,495,761.46 and consist of the following costs as shown in the statement of operations:

Cost of power purchased	\$ 2,181.77
Operating, maintenance, and administrative expenses	1,318,413.10
Interest	2,543,336.06
Provision for depreciation	571,942.51
Provision for contingencies and obsolescence	317,309.83
Provision for sinking fund	742,578.19
	<u>\$5,495,761.46</u>

2. The loss on the sale of power to companies was charged to the reserve for contingencies and obsolescence.

3. The profits less losses on the sale of power in the mining areas were credited to the reserve for stabilization of rates.

GENERAL NOTE APPLICABLE TO BOTH SYSTEMS

A new method of costing the power supplied to each customer was adopted in 1951. Under the new method 65 per cent of the charges for "power supply" were apportioned to customers on the basis of the average monthly peak load and 35 per cent were apportioned on the basis of the kilowatt-hours of energy taken. (In 1950 and previously the corresponding costs were allocated solely on the basis of the average monthly peak loads). The new method also involves numerous changes from the method used previously in the allocation of bulk transmission and divisional costs including transformation, transmission, and distribution.

SOUTHERN ONTARIO SYSTEM

SINKING FUND PAYMENTS BY MUNICIPALITIES

AND INTEREST ALLOWED THEREON

(including proportionate shares of sinking funds provided out of other revenues of the System)

December 31, 1951

Municipality	Period of years to Dec. 31, 1951	Amount	Municipality	Period of years to Dec. 31, 1951	Amount
		\$			\$
Acton.....	34	177,560.18	Brechin.....	32	14,631.87
Agincourt.....	28	29,410.52	Bridgeport.....	24	18,392.61
Ailsa Craig.....	31	31,553.26	Brigden.....	29	24,850.35
Alexandria.....	27	63,611.56	Brighton.....	22	35,294.94
Alliston.....	28	58,430.13	Brockville.....	31	459,598.28
Almonte.....	7	10,963.18	Brussels.....	28	30,913.56
Alvinston.....	28	31,726.33	Burford.....	31	33,038.01
Amherstburg.....	28	135,864.01	Burgessville.....	30	11,855.61
Ancaster Twp.....	28	44,905.28	Burks Falls.....	2	945.23
Apple Hill.....	27	7,128.69	Burlington.....	7	40,385.63
Arkona.....	25	14,818.30	Caledonia.....	34	51,903.55
Arnprior.....	13	50,616.30	Campbellville.....	27	6,908.92
Arthur.....	30	41,636.16	Cannington.....	32	33,898.58
Athens.....	23	15,885.40	Cardinal.....	22	20,920.05
Aurora.....	9	42,525.79	Carleton Place.....	27	185,117.70
Aylmer.....	28	112,032.38	Cayuga.....	27	24,023.00
Ayr.....	32	35,078.40	Chatham.....	31	919,783.82
Baden.....	34	71,041.34	Chatsworth.....	31	11,551.64
Bancroft.....	2	1,626.10	Chesley.....	30	81,371.31
Barrie.....	33	388,825.29	Chesterville.....	32	56,532.99
Barry's Bay.....	2	744.11	Chippawa.....	30	38,535.96
Bath.....	20	6,210.21	Clifford.....	28	18,010.52
Beachville.....	34	93,742.27	Clinton.....	32	107,511.11
Beamsville.....	15	25,001.85	Cobden.....	16	9,061.73
Beaverton.....	32	44,357.56	Cobourg.....	20	156,960.43
Beeton.....	28	31,918.40	Colborne.....	19	16,071.94
Belle River.....	29	27,346.84	Coldwater.....	33	29,951.18
Belleville.....	23	496,628.63	Collingwood.....	33	309,156.40
Blenheim.....	31	86,662.90	Comber.....	31	37,269.19
Bloomfield.....	23	16,018.51	Cookstown.....	28	12,783.89
Blyth.....	28	24,185.52	Cottam.....	25	11,565.21
Bobcaygeon.....	6	4,639.23	Courtright.....	28	12,555.69
Bolton.....	31	38,480.63	Creemore.....	32	25,667.08
Bothwell.....	31	35,079.62	Dashwood.....	29	19,463.73
Bowmanville.....	20	193,012.16	Delaware.....	31	8,700.17
Bradford.....	28	43,596.09	Delhi.....	14	31,752.15
Braeside.....	7	4,204.93	Deseronto.....	31	22,263.35
Brampton.....	35	388,221.35	Dorchester.....	32	17,327.73
Brantford.....	32	2,180,371.86	Drayton.....	28	28,328.85
Brantford Twp.....	28	118,761.61	Dresden.....	31	74,156.61

SOUTHERN ONTARIO SYSTEM

SINKING FUND PAYMENTS BY MUNICIPALITIES
AND INTEREST ALLOWED THEREON

(including proportionate shares of sinking funds provided out of other revenues of the System)

December 31, 1951

Municipality	Period of years to Dec. 31, 1951	Amount	Municipality	Period of years to Dec. 31, 1951	Amount
		\$			\$
Drumbo.....	32	15,399.33	Hastings.....	21	11,557.62
Dublin.....	29	11,936.20	Havelock.....	23	27,143.62
Dundalk.....	31	29,612.17	Hensall.....	30	38,093.78
Dundas.....	35	323,213.79	Hespeler.....	35	285,339.77
Dunnville.....	29	150,976.91	Highgate.....	30	20,003.38
Durham.....	31	66,571.53	Holstein.....	30	5,722.74
Dutton.....	31	42,212.41	Humberstone.....	28	54,673.42
East York Twp.....	27	814,333.08	Huntsville.....	30	143,052.69
Elmira.....	33	174,923.84	Ingersoll.....	35	413,975.72
Elmvale.....	33	31,729.04	Iroquois.....	12	10,200.69
Elmwood.....	28	10,396.31	Jarvis.....	28	33,190.31
Elora.....	32	80,322.38	Kemptville.....	27	49,545.28
Embro.....	32	24,875.76	Kincardine.....	27	102,588.18
Erieau.....	28	18,545.82	Kingston.....	14	572,940.59
Erie Beach.....	27	3,849.83	Kingsville.....	28	95,751.80
Erin.....	2	920.84	Kirkfield.....	27	6,859.00
Essex.....	28	77,547.45	Kitchener.....	35	3,026,362.26
Etobicoke Twp.....	29	748,725.31	Lakefield.....	23	36,318.74
Exeter.....	30	101,911.87	Lambeth.....	31	22,758.81
Fergus.....	32	157,703.20	Lanark.....	27	15,094.61
Finch.....	24	11,604.69	Lancaster.....	27	12,760.83
Flesherton.....	31	14,043.19	La Salle.....	26	37,360.35
Fonthill.....	26	19,192.93	Leamington.....	28	227,904.32
Forest.....	29	81,888.54	Lindsay.....	23	277,720.98
Forest Hill.....	28	504,376.25	Listowel.....	30	186,199.51
Frankford.....	3	1,755.28	London.....	35	5,288,108.02
Galt.....	35	1,263,721.16	London Twp.....	27	55,434.87
Georgetown.....	33	247,575.70	Long Branch.....	21	103,007.83
Glencoe.....	28	44,925.89	Lucan.....	31	38,908.40
Goderich.....	32	276,321.29	Lucknow.....	27	48,396.86
Grand Valley.....	30	27,269.01	Lynden.....	31	26,147.04
Granton.....	30	16,431.96	Madoc.....	22	23,445.97
Gravenhurst.....	31	86,183.97	Magnetawan.....	1	67.96
Grimsby.....	10	29,794.69	Markdale.....	30	24,026.64
Guelph.....	35	1,477,940.37	Markham.....	28	47,070.28
Hagersville.....	33	161,994.48	Marmora.....	23	14,989.93
Hamilton.....	35	12,482,375.10	Martintown.....	27	5,033.02
Hanover.....	30	181,928.57	Maxville.....	27	20,846.65
Harriston.....	30	77,987.52	Meaford.....	27	80,170.09
Harrow.....	28	67,481.48	Merlin.....	28	23,620.11

SOUTHERN ONTARIO SYSTEM

SINKING FUND PAYMENTS BY MUNICIPALITIES
AND INTEREST ALLOWED THEREON

(including proportionate shares of sinking funds provided out of other revenues of the System)

December 31, 1951

Municipality	Period of years to Dec. 31, 1951	Amount	Municipality	Period of years to Dec. 31, 1951	Amount
		\$			\$
Merrickville.....	2	1,058.86	Parry Sound.....	4	6,248.01
Merritton.....	30	532,636.44	Penetanguishene.....	35	138,956.07
Midland.....	33	477,900.56	Perth.....	27	167,417.74
Mildmay.....	19	11,713.46	Peterborough.....	23	946,750.71
Millbrook.....	13	6,100.34	Petrolia.....	30	208,964.62
Milton.....	33	216,842.31	Picton.....	23	137,651.87
Milverton.....	30	86,561.26	Plattsville.....	32	22,567.43
Mimico.....	34	322,406.38	Point Edward.....	29	165,261.47
Mitchell.....	35	102,302.49	Port Colborne.....	30	223,597.02
Moorefield.....	28	13,747.35	Port Credit.....	34	102,136.33
Morrisburg.....	14	15,588.06	Port Dalhousie.....	30	90,024.54
Mount Brydges.....	31	16,839.82	Port Dover.....	28	64,776.19
Mount Forest.....	31	77,839.03	Port Elgin.....	21	41,754.94
Napanee.....	22	113,123.85	Port Hope.....	22	186,290.69
Neustadt.....	28	12,650.58	Port McNicoll.....	32	15,058.67
Newboro.....	3	505.76	Port Perry.....	27	42,718.06
Newburgh.....	3	723.76	Port Rowan.....	25	16,651.58
Newbury.....	28	9,486.20	Port Stanley.....	34	94,342.80
Newcastle.....	15	11,620.15	Prescott.....	32	120,201.41
New Hamburg.....	35	105,626.97	Preston.....	35	549,454.16
Newmarket.....	7	45,828.92	Priceville.....	27	2,135.19
New Toronto.....	32	1,095,595.02	Princeton.....	32	21,843.27
Niagara.....	28	76,277.40	Queenston.....	28	15,273.21
Niagara Falls.....	31	1,180,604.10	Renfrew.....	7	18,424.84
North York Twp.....	28	740,862.80	Richmond.....	24	9,007.16
Norwich.....	34	76,954.10	Richmond Hill.....	27	53,776.10
Norwood.....	23	16,280.50	Ridgetown.....	31	91,810.14
Oakville.....	3	30,896.65	Ripley.....	27	18,424.27
Oil Springs.....	28	47,667.01	Riverside.....	29	190,605.90
Omeme.....	12	7,931.03	Rockwood.....	33	24,268.92
Orangeville.....	30	105,659.79	Rodney.....	29	29,724.66
Orono.....	13	5,488.41	Rosseau.....	21	8,898.69
Oshawa.....	23	1,451,811.95	Russell.....	26	12,968.63
Ottawa.....	36	991,770.07	St. Catharines.....	30	1,738,174.75
Otterville.....	30	19,785.69	St. Clair Beach.....	29	15,621.79
Owen Sound.....	31	551,338.33	St. George.....	31	29,930.88
Paisley.....	27	24,798.02	St. Jacobs.....	29	37,780.00
Palmerston.....	30	94,361.27	St. Marys.....	35	277,080.51
Paris.....	32	244,661.19	St. Thomas.....	35	1,062,001.45
Parkhill.....	28	43,773.40	Sarnia.....	30	1,393,506.44

SOUTHERN ONTARIO SYSTEM

SINKING FUND PAYMENTS BY MUNICIPALITIES
AND INTEREST ALLOWED THEREON

(including proportionate shares of sinking funds provided out of other revenues of the System)

December 31, 1951

Municipality	Period of years to Dec. 31, 1951	Amount	Municipality	Period of years to Dec. 31, 1951	Amount
		\$			\$
Scarborough Twp....	28	549,015.28	Trafalgar.....	15	39,255.17
Seaforth.....	35	132,716.25	Trenton.....	20	269,000.77
Shelburne.....	30	42,759.11	Tweed.....	21	30,096.55
Simcoe.....	31	265,433.10	Uxbridge.....	27	47,568.07
Smiths Falls.....	28	253,052.87	Victoria Harbour....	32	14,158.14
Smithville.....	11	10,740.81	Walkerton.....	21	65,754.43
Southampton.....	21	40,238.11	Wallaceburg.....	31	482,184.82
Springfield.....	29	18,520.56	Wardsville.....	28	8,798.64
Stamford Twp.....	30	242,546.34	Warkworth.....	23	9,773.04
Stayner.....	33	38,212.65	Waterdown.....	35	46,566.35
Stirling.....	22	24,183.97	Waterford.....	31	68,594.68
Stoney Creek.....	5	8,168.06	Waterloo.....	35	618,369.58
Stouffville.....	28	43,753.91	Watford.....	29	56,594.51
Stratford.....	35	1,216,835.30	Waubauskene.....	32	11,573.91
Strathroy.....	32	197,243.34	Welland.....	29	772,743.07
Streetsville.....	17	18,113.48	Wellesley.....	30	31,985.76
Sunderland.....	32	21,678.18	Wellington.....	23	26,073.13
Sutton.....	28	42,830.81	West Lorne.....	30	55,671.73
Swansea.....	26	227,772.81	Weston.....	35	534,971.30
Tara.....	28	19,258.88	Westport.....	20	14,233.21
Tavistock.....	30	97,553.23	Wheatley.....	28	34,576.09
Tecumseh.....	29	62,218.65	Whitby.....	23	132,202.85
Teeswater.....	27	28,105.92	Wiarton.....	21	41,249.20
Thamesford.....	32	37,630.84	Williamsburg.....	31	13,482.76
Thamesville.....	31	38,200.79	Winchester.....	32	45,895.43
Thedford.....	28	22,516.97	Windermere.....	22	6,681.60
Thornbury.....	7	3,883.91	Windsor.....	32	6,665,354.08
Thorndale.....	32	18,301.53	Wingham.....	27	94,024.42
Thornton.....	28	7,295.54	Woodbridge.....	32	80,855.40
Thorold.....	29	247,304.06	Woodstock.....	35	916,481.15
Tilbury.....	31	118,762.93	Woodville.....	32	19,786.51
Tillsonburg.....	35	200,752.02	Wyoming.....	30	18,666.99
Toronto.....	35	41,014,432.64	York Twp.....	31	1,834,786.63
Toronto Twp.....	33	339,222.35	Zurich.....	29	28,478.07
Tottenham.....	28	23,541.09			
			Total—Municipalities...		\$115,935,309.98
			Total—Rural Power District.....		14,562,491.01
			Grand Total.....		\$130,497,800.99

THUNDER BAY SYSTEM

SINKING FUND PAYMENTS BY MUNICIPALITIES
AND INTEREST ALLOWED THEREON

(including proportionate shares of sinking funds provided out of other revenues of the System)

December 31, 1951

Municipality	Period of years to December 31, 1951	Amount
		\$
Fort William.....	25	2,578,439.93
Nipigon Twp.....	25	41,974.83
Port Arthur.....	25	5,300,456.40
Red Rock Imp. Dist.....	4	12,169.17
Schreiber Twp.....	3	12,374.25
Terrace Bay Imp. Dist.....	4	25,893.85
Total—Municipalities.....		7,971,308.43
Total—Rural Power District.....		195,152.91
Total—Mining Area.....		24,942.97
Grand Total.....		8,191,404.31

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario
in trust for the Province of Ontario

FIXED ASSETS—Summary, December 31, 1951

Property	Under construction	In service		Total
		Non- depreciable	Depreciable	
	\$	\$	\$	\$
Abitibi District.....	1,252,435.01	6,576,849.91	31,549,694.22	39,378,979.14
Timiskaming District.....	330,444.60	1,207,324.16	9,223,663.39	10,761,432.15
Sudbury District.....	913,723.01	4,107,768.60	30,088,353.45	35,109,845.06
Nipissing District.....	66,122.73	214,225.80	1,742,974.55	2,023,323.08
Patricia District.....	1,475,596.39	327,164.19	9,901,479.57	11,704,240.15
Rainy River District.....	332,769.17	353,766.27	2,128,336.91	2,814,872.35
Communications.....	176,419.93		1,611,902.73	1,788,322.66
Office and Service Equipment.....			214,319.04	214,319.04
	4,547,510.84	12,787,098.93	86,460,723.86	103,795,333.63
Rural Power District.....	1,541,387.76	47,696.60	12,417,390.46	14,006,474.82
Total fixed assets.....	6,088,898.60	12,834,795.53	98,878,114.32	117,801,808.45
Less grants in aid of construction—Province of Ontario for Rural Power District.....				6,671,517.16
				111,130,291.29

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario

in trust for the Province of Ontario

FIXED ASSETS—December 31, 1951

Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
	\$	\$	\$	\$
ABITIBI DISTRICT				
Generating Stations				
Abitibi River				
Abitibi Canyon	21,163.65	5,530,862.63	13,519,755.04	19,071,781.32
Frederick House Dam	23,056.58	141,588.49	753,772.49	918,417.56
Desserat Lake Diversion		4,220.89	34,471.80	38,692.69
Watabeag Lake Dam		6,983.63	64,565.68	71,549.31
Coral and Otter Rapids	183,438.16			183,438.16
Mattagami River				
Wawaitin			1,388,087.97	1,388,087.97
Sandy Falls			875,136.14	875,136.14
Lower Sturgeon	26,704.54	53,250.00	779,363.56	859,318.10
Montreal River				
Indian Chute	66,624.09		441,937.54	508,561.63
Sub-total	320,987.02	5,736,905.64	17,857,090.22	23,914,982.88
Transformer Stations	462,528.86		4,884,351.90	5,346,880.76
Transmission Lines	435,775.56	839,944.27	7,369,688.87	8,645,408.70
Local Systems	33,143.57		1,438,563.23	1,471,706.80
Total Abitibi District	1,252,435.01	6,576,849.91	31,549,694.22	39,378,979.14
TIMISKAMING DISTRICT				
Generating Stations				
Matabitchuan River				
Matabitchuan	30,437.33	3,240.00	704,543.05	738,220.38
Storage dams		14,374.75	134,545.12	148,919.87
Mattagami River				
Storage dams		1,944.00	288,184.56	290,128.56
Intangible		986,398.64		986,398.64
Montreal River				
Hound Chute		2,917.38	642,136.45	645,053.83
Ragged Chute			959,172.00	959,172.00
Fountain Falls	101,381.03		393,761.00	495,142.03
Upper Notch	25,224.52	15,878.90	2,318,191.99	2,359,295.41
Storage dams			178,459.69	178,459.69
Sub-total	157,042.88	1,024,753.67	5,618,993.86	6,800,790.41
Transformer Stations	88,647.04		432,327.16	520,974.20
Transmission Lines	70,010.94	172,120.49	2,622,258.23	2,864,389.66
Office and Service Buildings	1,162.10	10,450.00	197,166.34	208,778.44
Local Systems	13,581.64		352,917.80	366,499.44
Total Timiskaming District	330,444.60	1,207,324.16	9,223,663.39	10,761,432.15

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario

in trust for the Province of Ontario

FIXED ASSETS—December 31, 1951

Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
SUDBURY DISTRICT	\$	\$	\$	\$
Generating Stations				
Wanapitei River				
Stinson		33,000.00	666,741.01	699,741.01
Coniston		15,092.20	773,037.02	788,129.22
McVittie	19,771.30	13,323.00	393,696.61	426,790.91
Storage dam		25.00	194,870.00	194,895.00
Intangible		830,514.53		830,514.53
Sturgeon River				
Crystal Falls and storage dams	6,770.48	44,531.27	1,244,041.80	1,295,343.55
Mississagi River				
George W. Rayner		1,740,000.00	16,643,289.55	18,383,289.55
Rocky Island Storage Dam		1,000,000.00	2,147,716.07	3,147,716.07
Aubrey Falls	43,893.66			43,893.66
Sub-total	70,435.44	3,676,486.00	22,063,392.06	25,810,313.50
Transformer Stations	637,788.51		4,157,301.15	4,795,089.66
Transmission Lines	205,499.06	431,282.60	3,867,660.24	4,504,441.90
Total Sudbury District	913,723.01	4,107,768.60	30,088,353.45	35,109,845.06
NIPISSING DISTRICT				
Generating Stations				
South River				
Nipissing	1,775.50	12,089.60	242,280.91	256,146.01
Bingham Chute		12,105.05	281,172.61	293,277.66
Elliot Chute		119,307.09	334,834.33	454,141.42
Storage dams			76,122.70	76,122.70
Intangible		69,478.34		69,478.34
Sub-total	1,775.50	212,980.08	934,410.55	1,149,166.13
Transformer Stations	49,824.78		437,144.87	486,969.65
Transmission Lines	11,711.52		313,914.56	325,626.08
Local Systems	2,810.93	1,245.72	57,504.57	61,561.22
Total Nipissing District	66,122.73	214,225.80	1,742,974.55	2,023,323.08

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario

in trust for the Province of Ontario

FIXED ASSETS—December 31, 1951

Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
PATRICIA DISTRICT	\$	\$	\$	\$
Generating Stations				
English River				
Ear Falls	22,161.79	566.75	3,758,768.41	3,781,496.95
Manitou Falls	46,264.62			46,264.62
Albany River				
Rat Rapids	399,560.42	39,297.44	571,400.88	1,010,258.74
Winnipeg River				
Boundary Falls	20,745.72			20,745.72
Sub-total	488,732.55	39,864.19	4,330,169.29	4,858,766.03
Transformer Stations	394,285.24		429,311.23	823,596.47
Transmission Lines	591,345.81	287,300.00	5,053,867.24	5,932,513.05
Local Systems	1,232.79		88,131.81	89,364.60
Total Patricia District	1,475,596.39	327,164.19	9,901,479.57	11,704,240.15
RAINY RIVER DISTRICT				
Transformer Stations	295,504.71		1,100,258.25	1,395,762.96
Transmission Lines	36,869.68	349,679.95	921,093.33	1,307,642.96
Local Systems	394.78		106,985.33	107,380.11
Intangible		4,086.32		4,086.32
Total Rainy River District	332,769.17	353,766.27	2,128,336.91	2,814,872.35
COMMUNICATIONS	176,419.93		1,611,902.73	1,788,322.66
OFFICE AND SERVICE EQUIPMENT			214,319.04	214,319.04
RURAL POWER DISTRICT				
Distribution System				
H-E.P.C. investment	766,089.68	4,299.62	6,036,869.75	6,807,259.05
Government grants	757,183.80		5,914,333.36	6,671,517.16
Generating Stn (Manitoulin)		43,396.98	167,346.94	210,743.92
Transformer Stns (Manitoulin)	14,044.05		54,765.52	68,809.57
Transmission Lines (Manitoulin)	4,070.23		244,074.89	248,145.12
	1,541,387.76	47,696.60	12,417,390.46	14,006,474.82

NORTHERN ONTARIO
STATEMENT OF CHANGES IN FIXED ASSETS—

Property	Balance at beginning of year	Expenditure during year
GENERATING STATIONS	\$	\$
Abitibi District.....	20,099,994.88	310,579.51
Timiskaming District.....	10,211,827.12	143,610.59
Sudbury District.....	25,321,213.55	473,479.64
Nipissing District.....	1,142,788.47	20,966.56
Patricia District.....	4,638,264.17	240,165.86
Rainy River District.....	4,086.32	
	61,418,174.51	1,188,802.16
TRANSFORMER STATIONS		
Abitibi District.....	3,335,775.83	412,270.23
Timiskaming District.....	2,114,365.48	45,738.96
Sudbury District.....	4,528,749.99	282,742.16
Nipissing District.....	443,668.63	40,403.80
Patricia District.....	345,765.62	482,205.72
Rainy River District.....	1,006,102.58	422,375.37
	11,774,428.13	1,685,736.24
TRANSMISSION LINES		
Abitibi District.....	6,845,038.01	1,021,010.94
Timiskaming District.....	3,711,620.35	24,882.44
Sudbury District.....	4,291,318.28	216,603.39
Nipissing District.....	296,799.88	30,661.31
Patricia District.....	4,891,479.45	1,046,943.27
Rainy River District.....	1,275,285.04	32,357.92
	21,311,541.01	2,372,459.27
LOCAL SYSTEMS		
Abitibi District.....	120,638.75	169,845.19
Timiskaming District.....	1,604,204.15	25,829.46
Nipissing District.....	60,279.88	1,360.52
Patricia District.....	82,503.42	7,138.75
Rainy River District.....	90,552.01	16,891.66
	1,958,178.21	221,065.58
COMMUNICATIONS.....	1,485,939.61	317,302.95
OFFICE AND SERVICE BUILDINGS		
Timiskaming District.....	208,344.71	1,433.73
OFFICE AND SERVICE EQUIPMENT.....	182,049.19	32,457.35
RURAL POWER DISTRICT		
H-E.P.C. investment.....	4,837,680.63	1,998,467.09
Government grants.....	4,725,546.86	1,974,858.95
Power Development (Manitoulin).....	238,558.40	3,221.95
Transformer Stations (Manitoulin).....	49,714.64	27,813.93
Transmission Lines (Manitoulin).....	190,192.90	57,952.22
	10,041,693.43	4,062,314.14
Total.....	108,380,348.80	9,881,571.42
Less grants in aid of construction— Province of Ontario for Rural Power District....	4,725,546.86	1,945,970.30
	103,654,801.94	7,935,601.12

PROPERTIES

During Year Ended December 31, 1951

Adjustment for equipment relocated and reclassified	Retirements		Balance at end of year
	Values recovered (stores, sales and salvage)	Charged to reserve for depreciation and contingencies	
\$	\$	\$	\$
3,532,499.96	24,332.47	3,759.00	23,914,982.88
3,533,439.96	10,657.34	10,550.00	6,800,790.41
15,795.31	96.90	175.00	25,810,313.50
.....	.....	14,492.00	1,149,166.13
.....	.....	19,664.00	4,858,766.03
.....	.....	.....	4,086.32
14,855.31	35,086.71	48,640.00	62,538,105.27
1,633,312.24	9,822.36	24,655.18	5,346,880.76
1,632,482.24	225.00	6,423.00	520,974.20
15,948.31	4.18	450.00	4,795,089.66
8,298.00	.....	5,400.78	486,969.65
2,594.00	801.65	979.22	823,596.47
2,704.00	9,038.85	26,380.14	1,395,762.96
6,710.31	19,892.04	64,288.32	13,369,273.70
827,481.13	23,144.03	24,977.35	8,645,408.70
835,279.13	1,465.31	35,368.69	2,864,389.66
648.00	4,127.77	.....	4,504,441.90
880.00	.....	955.11	325,626.08
1,540.00	1,373.90	2,995.77	5,932,513.05
.....	.....	.....	1,307,642.96
9,570.00	30,111.01	64,296.92	23,580,022.35
1,225,066.36	40,541.71	3,301.79	1,471,706.80
1,225,066.36	8,971.70	29,496.11	366,499.44
.....	30.16	49.02	61,561.22
.....	.....	277.57	89,364.60
.....	.....	63.56	107,380.11
.....	49,543.57	33,188.05	2,096,512.17
410.00	.....	14,509.90	1,788,322.66
.....	.....	1,000.00	208,778.44
.....	.....	187.50	214,319.04
4,990.00	28,662.99	5,215.68	6,807,259.05
4,990.00	28,662.98	5,215.67	6,671,517.16
.....	6.43	31,030.00	210,743.92
8,145.00	.....	574.00	68,809.57
.....	.....	.....	248,145.12
1,835.00	57,332.40	42,035.35	14,006,474.82
.....	191,965.73	268,146.04	117,801,808.45
.....	.....	.....	6,671,517.16
.....	191,965.73	268,146.04	111,130,291.29
Depreciation.....	\$	37,222.84	
Contingencies.....		230,923.20	
Total.....		268,146.04	

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario
in trust for the Province of Ontario

DEPRECIATION RESERVE—December 31, 1951

Balance at January 1, 1951.....	\$	9,155,541.40
Add:		
Interest at 4% per annum on reserve balance.....	\$	366,221.66
Provision in the year—direct.....		1,115,035.03
—indirect.....		25,296.64
Adjustments re equipment transferred.....		96,266.16
		<u>1,602,819.49</u>
	\$	10,758,360.89
Deduct:		
Amounts withdrawn for renewals.....	\$	21,208.79
Amounts withdrawn on assets retired.....		37,222.84
Excess depreciation accumulated on assets retired—trans- ferred to contingency reserve.....		5,268.10
		<u>63,699.73</u>
Balance at December 31, 1951.....	\$	<u>10,694,661.16</u>

CONTINGENCIES AND OBSOLESCENCE RESERVE—December 31, 1951

Balance at January 1, 1951.....	\$	3,295,370.25
Add:		
Interest at 4% per annum on reserve balance.....	\$	131,814.78
Provision in the year—direct.....		612,882.40
—indirect.....		2,437.69
Excess depreciation accumulated on assets retired—trans- ferred from depreciation reserve.....		5,268.10
		<u>752,402.97</u>
	\$	4,047,773.22
Deduct:		
Contingencies met with during year.....	\$	30,818.67
Excess of cost of fixed assets retired over accumulated depreciation—current year.....		230,923.20
—prior years.....		5,961.59
		<u>206,066.12</u>
Balance at December 31, 1951.....	\$	<u>3,841,707.10</u>

SINKING FUND RESERVE—December 31, 1951

Balance at January 1, 1951.....	\$	23,412,049.19
Add:		
Interest at 4% per annum on reserve balance.....	\$	871,343.11
Provision in the year—direct.....		1,065,628.57
—indirect.....		3,064.09
		<u>1,940,035.77</u>
Balance at December 31, 1951.....	\$	<u>25,352,084.96</u>

APPENDIX III—RURAL

Classes of Service—Rate Structure—

Summary Tabulations of Revenue, Consumption, and Miles of Line

Rural electrical service is supplied at wholesale by the Commission to 103 rural operating areas in the amalgamated Rural Power District. Within the Rural Power District the customers served are classified as farm, hamlet, commercial, summer, or industrial power service customers. These are defined below and the rates applicable to each follow.

For farm, hamlet, commercial, and summer service a uniform rural rate structure applies. Rates for rural industrial power service vary with the locality served. In their present form these rate structures have been in force since May 1, 1950.

Descriptions of Main Classes of Hydro Rural Service

Farm Service

Farm service means service rendered to lands and buildings thereon used for the production of food or industrial crops on that land, and shall include electrical service to all farm buildings and equipment located on the farm and used for farm purposes, including that required for processing the products of the customer's farm.

Service may be supplied under a farm contract to all dwellings or separate domestic establishments located on the farm property and occupied by persons who are engaged in the operation of the farm.

Additional dwellings or domestic establishments located on a farm property and occupied by persons not engaged in the operation of the farm shall be classed as hamlet contracts and rated accordingly. Small properties of five acres and less shall be classed as hamlet services except under special circumstances when a farm classification may be applied.

The minimum demand of a farm service for billing purposes shall be taken as three kilowatts.

Commercial Service

Commercial service means service rendered to a business establishment, including a church, school, public hall, boarding house, or other establishment used wholly or in part for business or community purposes.

Single-phase power only will be supplied under a commercial contract. Where 3-phase power is required, the service shall be classed as an industrial power service.

Hamlet Service

Hamlet service means service to a domestic establishment.

Summer Service

Summer service means service rendered to any kind of establishment normally used during the summer months only.

The demand rating for hamlet, commercial, and summer service is two kilowatts for a 2-wire service, and is limited by a 20-ampere breaker or a 30-ampere fuse. If the demand exceeds two kilowatts, 3-wire service is supplied and the minimum demand rating is three kilowatts.

Industrial Power Service

Power service covers 3-phase service to power users, such as creameries, cheese factories, chopping mills, industries, and special loads which cannot be supplied as commercial single-phase service.

Uniform Rural Rate Structure

For the first four of these classes of service the uniform rate structure incorporates a three-step energy charge as follows:

1. a gross charge of 4.4 cents per kilowatt-hour for a first designated number of kilowatt-hours per billing period.
2. a gross charge of 2.1 cents per kilowatt-hour for a similarly designated second number of kilowatt-hours in the same billing period.
3. a gross charge of 1.1 cent per kilowatt-hour for all additional kilowatt-hours in the same billing period.

Each of these four classes of customer is subdivided for rate purposes into groups according to power demand. All rural contracts for these types of service therefore carry a letter indicating the classification of the contract, and the letter is followed by a number indicating the kilowatt demand rating or the demand permissible under the contract. The table shows the minimum demand rating for each class.

The minimum monthly or annual bill and the number of kilowatt-hours to be billed at each of the three charge steps referred to, vary with each of these subdivided groups. The effect of this variation is shown in the table below. It should be noted that for summer service there is an annual service charge rather than a minimum monthly bill. Energy consumption per billing period is billed on the three-step energy charge schedule.

RATES TO CUSTOMERS IN RURAL OPERATING AREAS

Farm, Hamlet, Commercial, and Summer Service

Prompt Payment Discount 10 per cent

Rating and demand in kilowatts	Kilowatt-hours billed at			Min bill per month (gross)
	first rate 4.4 cents	second rate 2.1 cents	third rate 1.1 cent	
	(number per month)			\$
F3.....	60	180		2.25
F4.....	80	240		3.00
F5.....	100	300	All	3.75
F6.....	120	360		4.50
F7.....	140	420	additional	5.25
F8.....	160	480		6.00
F9.....	180	540		6.75
F10.....	200	600		7.50
H2.....	60	80		1.67
H3.....	60	180		2.25
H4.....	60	240		3.00
H5.....	80	300	All	3.75
H6.....	100	360		4.50
H7.....	120	420	additional	5.25
H8.....	140	480		6.00
H9.....	160	540		6.75
H10.....	180	600		7.50
C1*.....	30	60		0.75
C2.....	60	120		1.50
C3.....	90	180		2.25
C4.....	120	240	All	3.00
C5.....	150	300		3.75
C6.....	180	360	additional	4.50
C7.....	210	420		5.25
C8.....	240	480		6.00
C9.....	270	540		6.75
C10.....	300	600		7.50
	(number per annum)			Annual fixed charge (gross)
				\$
S2.....	150	450		16.67
S3.....	225	675		22.22
S4.....	300	900		22.22
S5.....	375	1,125	All	25.00
S6.....	450	1,350		30.00
S7.....	525	1,575	additional	35.00
S8.....	600	1,800		40.00
S9.....	675	2,025		45.00
S10.....	750	2,250		50.00

* only available in combination with hamlet service.

For each increase in demand of 1 kilowatt the table above should be adjusted by the addition given below according to class of service.

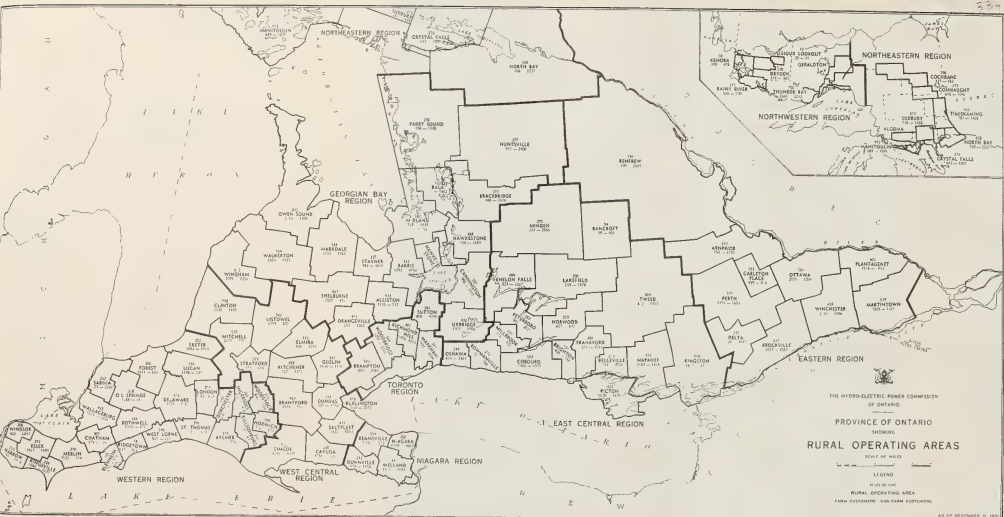
Service	First rate	Second rate	Addition to gross minimum bill	Addition to gross annual fixed charge
	kwh	kwh	cents	\$
Farm.....	20	60	75	....
Hamlet.....	20	60	75	....
Commercial.....	30	60	75	....
Summer.....	75	225	....	5.00

RATES TO CUSTOMERS IN RURAL OPERATING AREAS

Industrial Power Service

Prompt Payment Discount 10 per cent

Rural operating areas by regions	Basis of rate 130 hours' monthly use of demand per hp	Service charge per kw per mo	Rate per kwh per month		
			First 50 hrs	Second 50 hrs	All ad- ditional
SOUTHERN ONTARIO SYSTEM	\$	\$	cents	cents	cents
Western					
Aylmer.....	34.00	1.35	3.4	2.2	0.33
Blenheim.....	35.00	1.35	3.5	2.3	0.33
Bothwell.....	37.00	1.35	3.8	2.5	0.33
Chatham.....	31.00	1.35	2.9	1.9	0.33
Delaware.....	32.00	1.35	3.1	2.0	0.33
Dorchester.....	32.00	1.35	3.1	2.0	0.33
Essex.....	34.00	1.35	3.4	2.2	0.33
Exeter.....	37.00	1.35	3.8	2.5	0.33
Forest.....	39.00	1.35	4.1	2.7	0.33
Harrow.....	35.00	1.35	3.5	2.3	0.33
Ingersoll.....	31.00	1.35	2.9	1.9	0.33
Kingsville.....	35.00	1.35	3.5	2.3	0.33
London.....	31.00	1.35	2.9	1.9	0.33
Lucan.....	37.00	1.35	3.8	2.5	0.33
Merlin.....	35.00	1.35	3.5	2.3	0.33
Norwich.....	32.00	1.35	3.1	2.0	0.33
Oil Springs.....	39.00	1.35	4.1	2.7	0.33
Ridgetown.....	40.00	1.35	4.3	2.8	0.33
St. Thomas.....	34.00	1.35	3.4	2.2	0.33
Sarnia.....	36.00	1.35	3.7	2.4	0.33
Tillsonburg.....	32.00	1.35	3.1	2.0	0.33
Wallaceburg.....	34.00	1.35	3.4	2.2	0.33
West Lorne.....	37.00	1.35	3.8	2.5	0.33
Windsor.....	31.00	1.35	2.9	1.9	0.33
Woodstock.....	31.00	1.35	2.9	1.9	0.33
West Central					
Brantford.....	32.00	1.35	3.1	2.0	0.33
Burlington.....	31.00	1.35	2.9	1.9	0.33
Cayuga.....	41.00	1.35	4.4	2.9	0.33
Clinton.....	39.00	1.35	4.1	2.7	0.33
Dundas.....	31.00	1.35	2.9	1.9	0.33
Elmira.....	32.00	1.35	3.1	2.0	0.33
Guelph.....	30.00	1.35	2.8	1.8	0.33
Kitchener.....	32.00	1.35	3.1	2.0	0.33
Listowel.....	32.00	1.35	3.1	2.0	0.33
Mitchell.....	35.00	1.35	3.5	2.3	0.33
Saltfleet (Stoney Creek).....	27.00	1.35	2.3	1.5	0.33
Caledonia Section.....	31.00	1.35	2.9	1.9	0.33
Simcoe.....	35.00	1.35	3.5	2.3	0.33
Stratford.....	32.00	1.35	3.1	2.0	0.33



RATES TO CUSTOMERS IN RURAL OPERATING AREAS

Industrial Power Service

Prompt Payment Discount 10 per cent

Rural operating areas by regions	Basis of rate 130 hours monthly use of demand per hp	Service charge per kw per mo	Rate per kwh per month		
			First 50 hrs	Second 50 hrs	All ad- ditional
SOUTHERN ONTARIO SYSTEM —Continued	\$	\$	cents	cents	cents
Niagara					
Beamsville.....	30.00	1.35	2.8	1.8	0.33
Dunnville.....	34.00	1.35	3.4	2.2	0.33
Niagara (St. Catharines).....	29.00	1.35	2.6	1.7	0.33
Welland.....	25.00	1.35	2.0	1.3	0.33
Toronto					
Brampton.....	32.00	1.35	3.1	2.0	0.33
Markham.....	32.00	1.35	3.1	2.0	0.33
Richmond Hill.....	32.00	1.35	3.1	2.0	0.33
Sutton.....	35.00	1.35	3.5	2.3	0.33
Woodbridge.....	34.00	1.35	3.4	2.2	0.33
Georgian Bay					
Alliston.....	37.00	1.35	3.8	2.5	0.33
Bala.....	31.00	1.35	2.9	1.9	0.33
Barrie.....	37.00	1.35	3.8	2.5	0.33
Bracebridge.....	36.00	1.35	3.7	2.4	0.33
Cannington.....	39.00	1.35	4.1	2.7	0.33
Hawkestone (Orillia).....	30.00	1.35	2.8	1.8	0.33
Huntsville.....	35.00	1.35	3.5	2.3	0.33
Markdale.....	32.00	1.35	3.1	2.0	0.33
Midland (Penetanguishene).....	34.00	1.35	3.4	2.2	0.33
Orangeville.....	45.00	1.35	4.9	3.3	0.33
Owen Sound.....	40.00	1.35	4.3	2.8	0.33
Parry Sound.....	34.00	1.35	3.4	2.2	0.33
Shelburne.....	39.00	1.35	4.1	2.7	0.33
Stayner.....	32.00	1.35	3.1	2.0	0.33
Uxbridge.....	40.00	1.35	4.3	2.8	0.33
Walkerton.....	37.00	1.35	3.8	2.5	0.33
Wingham.....	39.00	1.35	4.1	2.7	0.33
East Central					
Bancroft.....	50.00	1.35	5.7	3.8	0.33
Belleville.....	30.00	1.35	2.8	1.8	0.33
Bowmanville.....	32.00	1.35	3.1	2.0	0.33
Brighton (Frankford).....	29.00	1.35	2.6	1.7	0.33
Cobourg.....	31.00	1.35	2.9	1.9	0.33
Fenelon Falls.....	35.00	1.35	3.5	2.3	0.33
Frankford.....	29.00	1.35	2.6	1.7	0.33
Kingston.....	31.00	1.35	2.9	1.9	0.33
Lakefeld.....	31.00	1.35	2.9	1.9	0.33
Millbrook.....	35.00	1.35	3.5	2.3	0.33

RATES TO CUSTOMERS IN RURAL OPERATING AREAS

Industrial Power Service

Prompt Payment Discount 10 per cent

Rural operating areas by regions	Basis of rate 130 hours' monthly use of demand per hp	Service charge per kw per mo	Rate per kwh per month		
			First 50 hrs	Second 50 hrs	All ad- ditional
SOUTHERN ONTARIO SYSTEM					
—Continued	\$	\$	cents	cents	cents
East Central—Continued					
Minden.....	35.00	1.35	3.5	2.3	0.33
Napanee.....	30.00	1.35	2.8	1.8	0.33
Norwood.....	39.00	1.35	4.1	2.7	0.33
Oshawa.....	31.00	1.35	2.9	1.9	0.33
Peterborough.....	25.00	1.35	2.0	1.3	0.33
Picton.....	36.00	1.35	3.7	2.4	0.33
Tweed.....	42.00	1.35	4.6	3.0	0.33
Eastern					
Arnprior.....	31.00	1.35	2.9	1.9	0.33
Brockville.....	31.00	1.35	2.9	1.9	0.33
Carleton Place (Perth).....	30.00	1.35	2.8	1.8	0.33
Delta.....	32.00	1.35	3.1	2.0	0.33
Martintown (Lancaster).....	41.00	1.35	4.4	2.9	0.33
Ottawa.....	27.00	1.35	2.3	1.5	0.33
Perth.....	32.00	1.35	3.1	2.0	0.33
Plantagenet.....	41.00	1.35	4.4	2.9	0.33
Renfrew.....	31.00	1.35	2.9	1.9	0.33
Winchester.....	32.00	1.35	3.1	2.0	0.33
THUNDER BAY SYSTEM					
Northwestern					
Thunder Bay (Port Arthur).....	30.00	1.35	2.8	1.8	0.33
NORTHERN ONTARIO PROPERTIES					
Northeastern					
Cochrane.....	50.00	1.35	5.7	3.8	0.33
Connaught (Matheson).....	42.00	1.35	4.6	3.0	0.33
Crystal Falls (North Bay).....	50.00	1.35	5.7	3.8	0.33
Manitoulin (Kagawong).....	44.00	1.35	4.8	3.2	0.33
North Bay (North Bay).....	42.00	1.35	4.6	3.0	0.33
Sudbury.....	37.00	1.35	3.8	2.5	0.33
Timiskaming (New Liskeard).....	41.00	1.35	4.4	2.9	0.33
Northwestern					
Dryden.....	50.00	1.35	5.7	3.8	0.33
Kenora.....	50.00	1.35	5.7	3.8	0.33
Rainy River (Fort Frances).....	50.00	1.35	5.7	3.8	0.33
Sioux Lookout.....	50.00	1.35	5.7	3.8	0.33

RURAL OPERATING AREAS
MILES OF LINE, NUMBER OF CUSTOMERS
as at December 31, 1951

Rural operating areas by regions	Miles of line	Number of customers receiving service						Not completed in 1951*	
		Farm	Hamlet	Commercial	Summer	Power	Total	Miles	Customers
SOUTHERN ONTARIO SYSTEM									
Western									
Aylmer	333.58	1,500	988	182	221	5	2,896	5.21	9
Blenheim	134.68	620	357	71	146	5	1,199	1.26	3
Bothwell	386.50	1,344	323	136	1	15	1,819	3.45	8
Chatham	305.12	1,379	1,731	176	.....	24	3,310	5.36	4
Delaware	476.15	1,709	524	189	.....	5	2,427	1.40	4
Dorchester	192.76	806	441	96	2	11	1,356	4.48	1
Essex	291.95	1,467	931	132	568	9	3,107	4.30	18
Exeter	252.03	1,042	509	135	784	5	2,475	4.99	7
Forest	305.71	1,241	164	86	599	6	2,096	2.00	8
Harrow	232.58	1,249	738	102	1,130	6	3,225	4.63	8
Ingersoll	288.95	1,021	354	70	9	5	1,459	2.57	1
Kingsville	237.82	1,664	963	138	1,103	16	3,884	3.47	13
London	302.59	1,182	5,887	323	.....	35	7,427	4.40	12
Lucan	345.91	1,198	141	91	1	4	1,435	3.98	14
Merlin	369.60	1,522	391	157	219	7	2,296	10.04	5
Norwich	199.29	922	261	61	.....	7	1,251	6.61	1
Oil Springs	328.47	1,288	212	126	.....	5	1,631	6.23	14
Ridgetown	177.58	637	265	57	499	5	1,463	3.08	1
St. Thomas	296.47	1,163	1,485	166	11	7	2,832	1.86	16
Sarnia	261.78	1,103	1,453	188	622	3	3,369	12.05	25
Tillsonburg	242.94	1,033	691	136	.....	13	1,873	1.96	2
Wallaceburg	435.18	1,654	950	226	197	11	3,038	9.03	30
West Lorne	246.12	827	167	62	35	1	1,092	2.70	6
Windsor	205.64	823	6,353	459	.....	35	7,670	4.03	9
Woodstock	212.52	880	536	108	.....	4	1,528	3.90	1
Total	7,061.92	29,274	26,815	3,673	6,147	249	66,158	112.99	220
West Central									
Brantford	663.36	2,844	1,352	245	11	17	4,469	9.64	5
Burlington	115.52	534	2,773	141	25	33	3,506	1.52	44
Cayuga	367.81	1,286	533	155	552	21	2,547	5.20	42
Clinton	596.37	2,120	765	241	488	5	3,619	10.74	19
Dundas	334.00	1,585	1,585	164	.....	13	3,347	1.68	9
Elmira	443.50	1,436	938	182	69	21	2,646	7.74	16
Guelph	361.13	1,196	1,036	127	19	13	2,391	6.26	6
Kitchener	489.46	1,727	3,680	356	177	39	5,979	9.77	18
Listowel	563.24	2,254	592	219	2	7	3,074	7.06	17
Mitchell	538.52	2,177	581	178	.....	11	2,947	8.68	10
Saltfleet	431.40	1,632	4,464	347	226	26	6,695	12.02	50
Simcoe	752.03	3,215	2,113	320	1,064	12	6,724	7.19	28
Stratford	289.05	1,175	495	111	1	9	1,791	16.23	2
Total	5,945.39	23,181	20,907	2,786	2,634	227	49,735	103.73	266

* Miles of line and total customers, not included in preceding columns.

RURAL OPERATING AREAS
MILES OF LINE, NUMBER OF CUSTOMERS

as of December 31, 1951

Rural operating areas by regions	Miles of line	Number of customers receiving service						Not completed in 1951*	
		Farm	Hamlet	Commercial	Summer	Power	Total	Miles	Customers
SOUTHERN ONTARIO SYSTEM									
Niagara									
Beamsville.....	353.62	2,023	1,225	206	127	21	3,602	13.20	4
Dunnville.....	242.17	974	563	120	886	9	2,552	2.66	6
Niagara.....	249.97	1,508	4,184	267	183	35	6,177	4.02	20
Welland.....	411.49	1,455	4,964	388	634	55	7,496	19.55	19
Total.....	1,257.25	5,960	10,936	981	1,830	120	19,827	39.43	49
Toronto									
Brampton.....	543.46	1,882	1,560	216	288	17	3,963	14.38	31
Markham.....	347.21	1,493	3,577	262	728	27	6,087	3.80	33
Richmond Hill.....	301.84	1,098	4,247	329	250	27	5,951	6.71	19
Sutton.....	281.09	806	1,329	163	2,740	14	5,052	4.59	17
Woodbridge.....	363.81	1,209	1,876	275	103	32	3,495	4.75	13
Total.....	1,837.41	6,488	12,589	1,245	4,109	117	24,548	34.23	113
Georgian Bay									
Alliston.....	423.27	1,535	381	136	13	7	2,072	6.31	6
Bala.....	123.18	51	488	71	1,300	3	1,913	31.54	49
Barrie.....	432.28	1,292	1,577	234	2,921	10	6,034	26.73	10
Bracebridge.....	373.42	488	761	117	1,734	4	3,104	13.09	83
Cannington.....	397.15	990	680	145	1,578	7	3,400	10.33	35
Hawkestone.....	387.70	728	681	142	1,857	4	3,412	14.08	7
Huntsville.....	377.13	457	1,154	200	1,039	7	2,857	15.59	132
Markdale.....	544.19	1,732	638	212	309	5	2,896	7.85	7
Midland.....	382.18	928	658	133	2,746	2	4,467	9.35	95
Orangeville.....	410.53	1,212	828	209	321	2	2,572	7.76	3
Owen Sound.....	812.09	2,113	1,256	350	1,702	1	5,422	4.46	68
Parry Sound.....	246.31	196	725	111	310	2	1,344	6.80	177
Shelburne.....	666.86	2,027	290	164	17	.....	2,498	1.29	3
Stayner.....	324.98	983	742	151	3,122	4	5,002	6.01	3
Uxbridge.....	436.00	1,307	796	191	815	4	3,113	9.99	12
Walkerton.....	763.74	2,603	723	274	417	8	4,025	22.64	38
Wingham.....	611.99	2,095	605	250	398	3	3,351	21.49	58
Total.....	7,713.00	20,737	12,983	3,090	20,599	73	57,482	215.31	786

* Miles of line and total customers, not included in preceding columns;

RURAL OPERATING AREAS

MILES OF LINE, NUMBER OF CUSTOMERS

as of December 31, 1951

Rural operating areas by regions	Miles of line	Number of customers receiving service						Not completed in 1951*	
		Farm	Hamlet	Commercial	Summer	Power	Total	Miles	Customers

SOUTHERN ONTARIO SYSTEM

East Central									
Bancroft.....	93.51	99	240	32	129	.....	500	8.19	78
Belleville.....	210.13	733	1,803	179	45	9	2,769	4.05	1
Bowmanville...	273.43	791	565	112	116	5	1,589	11.01	21
Brighton.....	130.79	408	175	29	183	1	796	4.21	1
Cobourg.....	499.52	1,466	1,013	226	734	4	3,443	14.00	14
Fenelon Falls...	499.35	824	491	146	2,023	7	3,491	8.31	23
Frankford.....	385.94	1,253	785	161	166	1	2,366	4.38	3
Kingston.....	655.73	1,857	2,180	386	619	12	5,054	18.00	44
Lakefield.....	289.85	519	598	142	737	1	1,997	9.19	47
Millbrook.....	177.32	516	208	58	58	1	841	6.22	.....
Minden.....	295.14	333	1,177	242	1,244	3	2,999	11.00	71
Napanee.....	514.87	1,689	946	272	194	6	3,107	7.67	43
Norwood.....	259.17	657	276	77	506	3	1,519	13.27	42
Oshawa.....	249.22	838	2,356	226	251	28	3,699	5.43	17
Peterborough...	258.84	981	1,306	177	536	8	3,008	14.78	18
Picton.....	422.20	1,620	987	232	472	4	3,315	8.40	5
Tweed.....	404.07	852	678	146	328	1	2,005	31.11	259
Total.....	5,619.08	15,436	15,784	2,843	8,341	94	42,498	179.22	687

Eastern									
Arnprior.....	310.20	750	836	194	556	13	2,349	1.28	11
Brockville.....	635.04	1,937	1,472	356	722	17	4,504	5.59	35
Carleton Place..	192.62	459	128	70	217	1	875	0.15	1
Delta.....	330.62	921	606	176	661	2	2,366	5.60	28
Martintown....	538.57	1,809	945	273	137	10	3,174	6.86	25
Ottawa.....	580.60	2,105	2,443	399	337	25	5,309	17.75	28
Perth.....	576.98	1,293	834	206	648	5	2,986	11.04	84
Plantagenet....	402.87	1,516	743	204	52	3	2,518	5.75	69
Renfrew.....	795.12	1,490	1,928	396	311	14	4,139	38.72	279
Winchester.....	687.57	2,764	1,018	340	35	13	4,170	1.99	6
Total.....	5,050.19	15,044	10,953	2,614	3,676	103	32,390	94.73	566

THUNDER BAY SYSTEM

Northwestern									
Thunder Bay...	700.14	1,661	1,546	255	405	6	3,873	39.51	137
Geraldton.....	18.63	.....	.....	.....	.....	.....	.....	3.97	192
Total.....	718.77	1,661	1,546	255	405	6	3,873	43.48	329

* Miles of line and total customers, not included in preceding columns.

RURAL OPERATING AREAS

MILES OF LINE, NUMBER OF CUSTOMERS

as at December 31, 1951

Rural operating areas by regions	Miles of line	Number of customers receiving service						Not completed in 1951*	
		Farm	Hamlet	Commercial	Summer	Power	Total	Miles	Customers

NORTHERN ONTARIO PROPERTIES

Northeastern									
Cochrane.....	196.12	437	838	89	56	.....	1,420	17.42	43
Connaught.....	278.90	616	768	141	128	9	1,662	24.23	18
Crystal Falls....	275.73	642	791	151	59	4	1,647	25.15	221
Manitoulin.....	452.60	689	1,158	356	370	11	2,584	33.69	110
North Bay.....	427.72	766	2,181	294	748	14	4,003	27.60	28
Sudbury.....	373.21	738	4,705	329	391	13	6,176	99.69	319
Timiskaming....	435.42	781	961	195	241	11	2,189	30.29	255
Total.....	2,439.70	4,669	11,402	1,555	1,993	62	19,681	258.07	994
Northwestern									
Dryden.....	119.99	178	235	78	47	1	539	3.70	15
Kenora.....	107.55	180	264	37	105	2	588	2.40	60
Rainy River....	316.88	606	432	154	.....	4	1,196	29.41	166
Sioux Lookout..	10.45	20	37	7	27	.....	91	.....	.....
Total.....	554.87	984	968	276	179	7	2,414	35.51	241

* Miles of line and total customers, not included in preceding columns.

**SUMMARY—MILES OF LINE AND NUMBER OF CUSTOMERS
IN RURAL OPERATING AREAS AT DECEMBER 31, 1951**

System by regions	Miles of line	Customers receiving service						Not completed in 1951*	
		Farm	Hamlet	Commercial	Summer	Power	Total	Miles	Customers
SOUTHERN ONTARIO									
Western.....	7,061.92	29,274	26,815	3,673	6,147	249	66,158	112.99	220
West Central...	5,945.39	23,181	20,907	2,786	2,634	227	49,735	103.73	266
Niagara.....	1,257.25	5,960	10,936	981	1,830	120	19,827	39.43	49
Toronto.....	1,837.41	6,488	12,589	1,245	4,109	117	24,548	34.23	113
Georgian Bay...	7,713.00	20,737	12,983	3,090	20,599	73	57,482	215.31	786
East Central...	5,619.08	15,436	15,784	2,843	8,341	94	42,498	179.22	687
Eastern.....	5,050.19	15,044	10,953	2,614	3,676	103	32,390	94.73	566
Totals.....	34,484.24	116,120	110,967	17,232	47,336	983	292,638	779.64	2,687
THUNDER BAY ...	718.77	1,661	1,546	255	405	6	3,873	43.48	329
NORTHERN ONTARIO PROPERTIES									
Northeastern...	2,439.70	4,669	11,402	1,555	1,993	62	19,681	258.07	994
Northwestern...	554.87	984	968	276	179	7	2,414	35.51	241
Totals.....	2,994.57	5,653	12,370	1,831	2,172	69	22,095	293.58	1,235
Totals—All Systems.....	38,197.58	123,434	124,883	19,318	49,913	1,058	318,606	1,116.70	4,251

* Miles of line and total customers, not included in preceding columns.

**SUMMARY OF RURAL CONSTRUCTION
Approved by the Commission from June 1, 1921 to December 31, 1951
Constructed or Under Construction**

Systems by regions	Miles of primary line	Number of customers			Capital expenditure	
		Farm	Non-farm	Total	Total	Provincial grant-in-aid
SOUTHERN ONTARIO					\$	\$
Western.....	7,174.91	29,389	36,989	66,378	23,389,368.86	11,541,446.86
West Central...	6,049.12	23,324	26,677	50,001	20,560,701.60	10,225,289.35
Niagara.....	1,296.68	5,978	13,898	19,876	5,395,745.97	2,663,839.68
Toronto.....	1,871.64	6,518	18,143	24,661	7,339,452.64	3,637,139.39
Georgian Bay...	7,928.31	20,892	37,376	58,268	24,115,983.03	11,910,444.07
East Central.....	5,798.30	15,602	27,583	43,185	18,117,089.31	9,010,002.95
Eastern.....	5,144.92	15,271	17,685	32,956	16,381,647.12	8,131,391.27
Totals.....	35,263.88	116,974	178,351	295,325	115,299,988.53	57,119,553.57
THUNDER BAY						
Northwestern.....	762.25	1,695	2,507	4,202	2,548,754.45	1,274,281.81
NORTHERN ONTARIO PROPERTIES						
Northeastern.....	2,697.77	5,116	15,559	20,675	11,781,804.91	5,825,388.43
Northwestern.....	590.38	1,109	1,546	2,655	2,549,097.30	1,272,191.73
Totals.....	3,288.15	6,225	17,105	23,330	14,330,902.21	7,097,580.16
Totals—All Systems	39,314.28*	124,894	197,963	322,857	132,179,645.19	65,491,415.54

*These totals include 1,116.70 miles of primary line under construction on December 31, 1951 and service to 4,251 (consisting of 1,460 farm and 2,791 non-farm) new customers not completed until after the end of the fiscal year.

During previous years the figures published in this statement represented the summation of all estimates since the beginning of rural operation. As the Commission was able in a large number of cases to construct these lines for a sum lower than the original estimate, it is now deemed advisable to show the actual cost for all years, 1921 to 1951. Included in these figures is an estimate of the cost of completing lines partially constructed in 1951.

RURAL SERVICE, 1928 TO 1943, BEFORE ADOPTION OF PROVINCE-WIDE UNIFORM RATES AND NEW CLASSIFICATION. COMPARABLE FIGURES FOR EARLIER YEARS NOT AVAILABLE

Hamlet and House Lighting Service

Year	Annual revenue	Kilowatt-hours consumed	Number of customers billed*	Average revenue per kwh	Average monthly bill	Average monthly consumption
	\$	kwh		cents	\$	kwh
1928	530,407.00	10,702,031	17,585	4.95	2.51	50.7
1929	663,311.00	14,424,770	21,219	4.60	2.85	62.0
1930	757,558.00	17,815,987	25,013	4.25	2.73	64.2
1931	974,224.17	22,127,474	31,176	4.40	2.88	65.6
1932	1,075,081.03	24,654,386	33,368	4.36	2.76	63.3
1933	1,133,368.70	25,410,470	35,941	4.46	2.70	60.1
1934	1,149,876.67	27,768,460	37,466	4.14	2.61	63.0
1935	1,171,873.28	30,802,290	39,751	3.80	2.53	66.5
1936	1,239,010.83	35,666,241	43,014	3.47	2.49	71.8
1937	1,331,919.46	40,935,040	46,785	3.25	2.47	76.0
1938	1,439,681.39	47,612,820	52,514	3.02	2.42	79.9
1939	1,649,496.29	54,787,544	58,328	3.01	2.36	78.3
1940	1,812,550.53	60,839,240	62,973	2.98	2.40	80.5
1941	1,995,468.46	67,587,082	67,939	2.95	2.45	82.9
1942	2,118,911.57	72,613,472	69,766	2.92	2.56	87.9
1943	2,170,221.41	73,980,871	70,919	2.93	2.57	87.6

Farm Service

Year	Annual revenue	Kilowatt-hours consumed	Number of customers billed*	Average revenue per kwh	Average monthly bill	Average monthly consumption
	\$	kwh		cents	\$	kwh
1928	569,007.00	10,969,828	9,309	5.18	4.97	96
1929	777,736.00	16,022,842	12,605	4.85	5.85	121
1930	863,805.00	20,507,063	16,011	4.21	5.03	119
1931	1,128,554.28	25,716,141	20,796	4.39	5.11	116
1932	1,255,482.13	28,675,400	22,432	4.38	4.84	110
1933	1,309,122.96	30,062,194	23,283	4.35	4.75	109
1934	1,319,922.69	33,312,314	23,882	3.96	4.66	118
1935	1,343,222.39	37,667,453	25,357	3.57	4.55	128
1936	1,385,784.39	45,447,669	28,198	3.05	4.31	141
1937	1,366,484.50	54,858,240	35,508	2.49†	3.57	144†
1938	1,711,788.81	67,886,882	44,565	2.52†	3.56	141†
1939	2,090,259.14	81,613,087	53,240	2.56†	3.56	139†
1940	2,405,092.40	93,859,719	58,728	2.56†	3.41	133†
1941	2,690,250.37	107,061,610	63,304	2.51	3.54	141
1942	2,870,300.31	116,448,363	63,748	2.46	3.75	152
1943	2,934,011.31	121,428,714	64,292	2.42	3.81	158

* See footnote to table on page 61

† In the period 1937 to 1940, there was an increase in the statistical average revenue per kilowatt-hour and a decrease in the statistical average monthly consumption per customer. Actually there was a great increase in the use of electricity by nearly all individual Hydro customers and a corresponding decrease to each customer in the average cost per kilowatt-hour. But due to the tremendous growth at that time in new customers, who for the first few years were not equipped to use large quantities of electricity each month, the smaller monthly consumption of the new customers when averaged with the increased use of the older customers produced per customer averages which obscured the true trends of individual growth in use and individual reductions in costs.

APPENDIX IV

ENGINEERING AND CONSTRUCTION

Contents:

1. A list of station projects, in addition to those described in Section V, which were completed or under construction in 1951.
2. Table showing changes in transformer capacity during the year ended December 31, 1951.
3. Summary table of transformer step-down capacity at December 31, 1951.
4. A section relating to power system auxiliaries—telephone, power-line carrier, and radio facilities.
5. Summary table of transmission lines and circuits at December 31, 1951.

INCREASE IN TRANSFORMER AND DISTRIBUTING STATION CAPACITY

Transformer Stations

The table on page 347 records the changes in transformer capacity made during the year. In addition to information given there, the table of transformer stations below shows the total capacity of some of the more important installations which were completed or under construction during the year.

<u>Transformer station</u>	<u>Capacity</u> kva	<u>Frequency</u> cycles
<i>Completed in 1951</i>		
Kapuskasing.....	8,000	60
Owen Sound.....	15,000	60
Seaforth.....	16,000	60
Toronto-John.....	60,000	25
Windsor-Crawford.....	54,000	60
<i>Under Construction</i>		
Belleville.....	25,000	60
Brantford.....	25,000	60
Brockville.....	30,000	60
Dryden.....	16,000	60
Hamilton-Kenilworth.....	100,000	60
Hanover.....	30,000	60

The table below shows the net additional capacity installed in some of the larger 115-kv transformer stations which were completed in 1951. For those under construction the capacity of the station is given.

<u>Station</u>	<u>Frequency</u>	<u>Completed in</u> <u>1951</u>	<u>Under construction</u>
	<i>cycles</i>	<i>Net additional capacity—kva</i>	<i>Capacity—kva</i>
Caledonia.....	25	.....	8,000
Cooksville.....	25	8,000	.....
Ross L. Dobbin.....	60	85,000	.....
Dundas.....	25	.....	15,000
Essex.....	60	.....	50,000
Hamilton Beach.....	60	.....	30,000
Kent.....	25	24,000	.....
	60	15,000	.....
Kingsville.....	25	8,000	.....
Kirkland Lake.....	60	8,000	.....
Kitchener.....	25	15,000	.....
London.....	60	48,900	.....
A. W. Manby.....	25	5,000	.....
Palmerston.....	25	.....	8,000
St. Catharines.....	60	27,000	.....
St. Marys.....	60	16,000	.....
St. Thomas.....	60	.....	14,400
Toronto-Fairbank.....	60	14,500	.....
	25/60	.....	25,000/45,000
Wallaceburg.....	60	14,400	.....

Distributing Stations

New distributing stations and increases in capacity at existing stations have been made during 1951 as follows:

<u>Stations</u>	<u>Location</u>	<u>New station capacity</u>	<u>Net increased capacity in existing stations</u>
<i>No.</i>		<i>kva</i>	<i>kva</i>
15	Niagara Division.....	33,550	.....
18	Niagara Division.....	.....	16,850
3	Georgian Bay Division.....	4,000	.....
6	Georgian Bay Division.....	.....	7,550
4	Eastern Division.....	6,500	.....
8	Eastern Division.....	.....	6,750
2	Thunder Bay System.....	200	.....
3	Northern Ontario Properties.....	8,000	.....
1	Northern Ontario Properties.....	.....	550
60	Total.....	52,250	31,700

Lines

The following 115-kv lines, in addition to those reported elsewhere, were placed in service in 1951:

From Devizes Junction to Seaforth Transformer Station.....	27 miles
From Owen Sound Transformer Station to Hanover Transformer Station.....	29 miles
From Gamble Junction to Cassburn Distributing Station.....	38 miles

FACILITIES TO RECEIVE 60-CYCLE POWER IN ADVANCE OF FREQUENCY STANDARDIZATION

WESTERN, WEST CENTRAL, NIAGARA, AND TORONTO REGIONS

In these four regions of the Southern Ontario System a number of electrical engineering projects briefly referred to on page 89 of this Report were completed or under construction. Details on these are given below:

Cyanamid

An additional 25,000-kva, 3-phase, 115/13.2-kv transformer was placed in service in May 1951.

Merritton

One 25,000-kva, 3-phase, 115/13.2-kv transformer is expected to go in service in May 1952.

Niagara Construction Power

One 25,000-kva, 3-phase, 115/13.2-kv transformer was placed in service in December 1951. The second 25,000-kva transformer is expected to go in service in July 1952.

Toronto-Strachan

Three 6,000/10,000-kva, single-phase, 25/60-cycle transformers were placed in service on August 18, 1951 at 60 cycles. In addition, the 15,000-kva, 25-cycle permanent bank No. 5 was changed in July 1951 to 60-cycle operation with the same capacity. No 4 permanent bank at this station is being dealt with similarly and is expected to be placed in service in 1952 at 60 cycles.

Toronto-Thorncliffe

Two 15,000-kva, 3-phase, 115/13.2-kv transformers were ready for service at Toronto-Thorncliffe Transformer Station in December 1951.

Toronto-Wiltshire

Two permanent 18,000/32,400-kva, 25/60-cycle transformer banks, which have been in service at 25 cycles, were changed to 60-cycle operation

in November 1951. A new 30,000-kva, 25-cycle, 115/13.2-kv transformer bank was placed in service in October 1951.

Welland Junction

Three 6,000-kva, single-phase, 44/26.4-kv transformers were placed in service in July 1951.

Temporary Transformer Stations

At the following temporary transformer stations 60-cycle transformers were placed in service, or were being installed as noted.

<u>Station</u>	<u>Capacity</u> kva	<u>Voltage</u> kv	<u>In service</u>
Brantford.....	8,000	115/26.4	September
Galt.....	15,000	115/26.4	September
Guelph.....	15,000	115/13.2	November
Kent.....	15,000	115/26.4	July
Kitchener.....	15,000	115/13.2	October
Stratford.....	15,000	115/26.4	January 1952
Woodstock.....	15,000	115/26.4	July

At Galt, Kitchener, and Woodstock a second bank is now being installed.

Lines

In order to supply 60-cycle power to stations in the Niagara Region numerous line changes and reconnections were made in the area between Hamilton and Niagara Falls. The source of power was Burlington Transformer Station.

Service in the Western and West Central Regions required the construction of approximately 37 miles of 115-kv, 60-cycle line and certain low-voltage lines. The 60-cycle power is obtained from Burlington and E. V. Buchanan Transformer Stations.

In order to supply Toronto-Thorncliffe Transformer Station a 115-kv, 60-cycle circuit was erected on existing towers from Scarborough Frequency-Changer to the transformer station.

CHANGES IN TRANSFORMER CAPACITY DURING YEAR ENDED

DECEMBER 31, 1951

Station	Type	Date	Transformers installed				Transformers removed	
			no	kva	ph	total kva	no	kva
Southern Ontario System								
Alvinston.....	D.S.	Jan. 3	3	600/1,080	1	3,240	3	600/1,080
Appin.....	D.S.	Jul. 29	3	667	1	2,000	3	333
Aurora No. 1.....	D.S.	Jul. 10	3	333	1	1,000	3	500
Barry's Bay No. 2.....	D.S.	Dec. 20	3	667	1	2,000	1	600
Bass Lake.....	D.S.	Jun. 27	3	667	1	2,000	1	600
Battersea.....	D.S.	Jul. 10	1	1,000	1	1,000		
Bayfield.....	D.S.	Jun. 15	1	1,000	3	1,000		
Beaumaris.....	D.S.	Jun. 24	3	333	1	1,000	3	250
Best.....	D.S.	Aug. 16	1	2,000	3	2,000		
Blenheim No. 1.....	D.S.	May 27					3	250
Blenheim No. 2.....	D.S.	May 6	3	667/1,200	1	2,000/3,600	3	333
Blenheim No. 2.....	D.S.	May 20	1	1,000/2,000	3	1,000/2,000		
Bobcaygeon.....	D.S.	Jul. 11	3	100	1	300		
Bolton.....	D.S.	Jul. 29	3	450	1	1,350	3	250
Brantford.....	T.S.	Sep. 23	1	8,000	3	8,000		
Broughdale.....	D.S.	Sep. 23	1	2,000/3,600	1	3,600	1	2,000/3,600
Burlington.....	T.S.	Mar. 5	2	90,000	3	180,000		
Burlington No. 2.....	D.S.	Aug. 26	1	3,000	3	3,000		
Burlington No. 2.....	D.S.	Aug. 28					3	250
Burlington Beach.....	D.S.	Mar. 21	3	500	1	1,500	3	150
Byron.....	D.S.	Jul. 9	1	2,000/3,600	3	2,000/3,600		
Centralia.....	D.S.	Sep. 10	3	667/1,200	1	3,600	3	667/1,200
Chalk River.....	T.S.	Aug. 26	3	1,500	1	4,500	3	1,000
Chatham-Raleigh.....	D.S.	Sep. 19	3	667/1,200	1	2,000/3,600		
Cooksville.....	T.S.	Jun. 1	1	8,000	3	8,000		
Corunna.....	D.S.	Mar. 4	3	667	1	2,000	3	150
Cyanamid.....	T.S.	May 14	1	25,000	3	25,000		
Dain City.....	D.S.	Apr. 15	1	2,000/3,600	3	2,000/3,600		
Dainsville.....	D.S.	Jul. 1					3	150
Delaware.....	D.S.	Jun. 27	3	667/1,200	1	3,600	3	667/1,200
Delhi No. 2.....	D.S.	Apr. 19	3	667/1,200	1	2,000/3,600		
Ross L. Dobbin.....	T.S.	Jan. 21	1	15,000	3	15,000		
Ross L. Dobbin.....	T.S.	Mar. 3	1	78,000	3	78,000		
Dresden No. 2.....	D.S.	Aug. 19	3	333/600	1	1,000/1,800		
Durham.....	D.S.	Jun. 25	1	2,000	3	2,000	1	600
Essa.....	T.S.	Jul. 1	1	54,000	3	54,000		
Etobicoke Twp.....	D.S.	Aug. 21	1	3,000	3	3,000		
Etobicoke Twp.— Rosethorne.....	D.S.	May 11	1	3,000/6,000	3	3,000/6,000	1	2,000/3,600
Etobicoke Twp.— Westmount.....	D.S.	Feb. 28	1	2,000/3,600	3	2,000/3,600		
Exeter No. 1.....	D.S.	Oct. 19	3	250	1	750	3	150
Exeter No. 2.....	D.S.	Jun. 29	1	1,000/1,800	1	1,800	1	1,000/1,800
Fonthill.....	D.S.	Sep. 30	3	667/1,200	1	2,000/3,600	3	333
Galt.....	T.S.	Aug. 1	1	15,000	3	15,000		
Galt.....	D.S.	Sep. 30	3	667/1,200	1	2,000/5,400	3	333
Glen Williams.....	D.S.	Jan. 18	3	667/1,200	1	2,000/3,600		

**CHANGES IN TRANSFORMER CAPACITY DURING YEAR ENDED
DECEMBER 31, 1951**

Station	Type	Date	Transformers installed				Transformers removed	
			no	kva	ph	total kva	no	kva
Southern Ontario System—Continued								
Grand Bend.....D.S.		Jul. 10	3	600	1	1,800	3	333
Grantham Twp.—Burtch.....D.S.		Jul. 15	3	667/1,200	1	2,000/3,600	3	200
Gravenhurst No. 2.D.S.		May 3	3	667	1	2,000		
Guelph.....T.S.		Aug. 16	1	15,000	3	15,000		
Guelph.....D.S.		Nov. 18	1	2,000/3,600	3	2,000/3,600	1	600
Green Creek.....D.S.		Dec. 29	3	1,000	1	3,000		
Haliburton.....D.S.		Jan. 14	3	667	1	2,000	3	333
Hamilton—Kenilworth.....T.S.		Nov. 8	2	25,000	3	50,000		
Hamilton—Kenilworth.....T.S.		Sep. 4	1	25,000	3	25,000		
Hamilton Beach...T.S.		Jul. 6	2	15,000	3	30,000		
Hinchinbrooke....D.S.		Jul. 10	3	500	1	1,500		
Kent.....T.S.		Nov. 25	2	8,000	3	16,000		
Kent.....T.S.		Jul. 9	1	15,000	3	15,000		
Kent.....T.S.		Apr. 24	1	8,000/14,500	3	8,000/14,500		
Kincardine No. 2..D.S.		Jun. 19	3	667	1	2,000	3	200
Kingsville.....T.S.		Oct. 14	1	8,000/14,400	3	8,000/14,400		
Kitchener.....T.S.		Aug. 31	3	5,000	1	15,000		
Kitchener.....T.S.		Oct. 29	1	8,000/14,500	3	8,000/14,500	1	600
Lincoln.....D.S.		May 1					3	250
London.....T.S.		Jan. 8	3	10,500	1	31,500	3	5,000
London.....T.S.		May 2	3	6,000/10,800	1	18,000/31,400	1	5,000
London—Huron...D.S.		Jan. 28	3	333/600	1	1,000/1,800		
London—TrafalgarD.S.		Sep. 23	3	667/1,000	1	3,600	3	667/1,200
Malton.....D.S.		Dec. 1	6	333	1	2,000	6	150
A. W. Manby.....T.S.		Sep. 22	3	10,000	1	30,000	1	25,000/45,000
Marmora.....D.S.		Jul. 22	3	200	1	600	1	100
Meadowvale....A.T.S.		May 3					2	5,000
Merriton.....D.S.		Mar. 4	2	5,000/6,667	3	10,000/13,334		
Norwood.....D.S.		Jan. 2	3	333	1	1,000	1	300
Odessa.....D.S.		Sep. 28	1	2,000	3	2,000		
Oil Springs.....D.S.		Dec. 2	3	450	1	1,350	3	250
Owen Sound.....T.S.		Oct. 14	3	5,000	1	15,000		
Owen Sound No. 2.D.S.		Jul. 27	3	667	1	2,000	3	200
Painswick.....D.S.		Jul. 5	3	667	1	2,000	3	150
Parkhill.....D.S.		Dec. 10	3	600	1	1,800	1	600
Perth No. 2.....D.S.		Jul. 18	3	333/600	1	1,000/1,800	3	200
Plantagenet Springs.....D.S.		Aug. 22	3	667	1	2,000	3	333
Plymouth Cordage.D.S.		Jul. 28	1	1,500	3	1,500	3	300
Plymouth Cordage.D.S.		Jul. 28						
Port Nelson No. 2.D.S.		May 29	1	2,000/3,600	1	2,000/3,600		
Port Robinson...D.S.		Sep. 30	3	333	1	1,000	3	150
Port Stanley No. 2.D.S.		Aug. 9	1	600	3	600		
Preneveau.....A.T.S.		Jan. 26	1	1,000	3	1,000	3	25
Rockwood No. 2...D.S.		Mar. 16	3	250	1	750		
St. Catharines....T.S.		May 13	1	15,000/27,000	3	15,000/27,000		

**CHANGES IN TRANSFORMER CAPACITY DURING YEAR ENDED
DECEMBER 31, 1951**

Station	Type	Date	Transformers installed				Transformers removed	
			no	kva	ph	total kva	no	kva
Southern Ontario								
System—Continued								
St. Jacobs.....	D.S.	Jul. 20	1	600	3	600		
St. Marys.....	T.S.	Mar. 8	2	8,000	3	16,000		
St. Thomas.....	T.S.	May 3	2	5,000	3	10,000		
St. Thomas.....	D.S.	Jun. 15	3	667/1,200	1	2,000/3,600	3	250
Scarborough								
F.C. & T.S.		Sep. 15	1	25,000	3	25,000		
Science Hill.....	D.S.	Oct. 14	1	2,000	3	2,000	1	1,000/1,800
Seaforth.....	D.S.	Apr. 23	2	8,000	3	16,000		
Sharon.....	D.S.	Apr. 30					3	150
Shelburne No. 2.....	D.S.	Sep. 16	1	1,000	3	1,000		
Stouffville.....	D.S.	Jan. 4	1	1,000	3	1,000		
Strathroy.....	D.S.	May 6	3	333/600	1	1,800	3	333/600
Stratford.....	D.S.	Nov. 18	1	1,000/2,000	3	1,000/2,000		
Sulphide.....	D.S.	Dec. 14	1	300	3	300		
Thorndale.....	D.S.	Oct. 31	1	1,000/1,800	3	1,800	1	1,000/1,800
Thorold.....	T.S.	Aug. 31					3	5,000
Toronto-Fairbank.....	T.S.	May 14	1	8,000/14,500	3	8,000/14,500		
Toronto-John.....	T.S.	Dec. 21	1	15,000/27,000	3	15,000/27,000		
Toronto-Strachan.....	T.S.	Jul. 14	3	6,000/10,800	1	18,000/32,400		
Toronto-Thorncliffe.....	T.S.	Dec. 20	2	15,000	3	30,000		
Toronto-Wiltshire.....	T.S.	Oct. 30	3	10,000/18,000	1	30,000/54,000		
Toronto Power.....	T.S.	Jul. 28					3	6,000
Unionville.....	D.S.	Jan. 24	3	667/1,200	1	2,000/3,600	3	667/1,200
Wallaceburg.....	T.S.	Nov. 18	1	8,000/14,400	3	8,000/14,400		
Warkworth.....	D.S.	Jul. 26	1	1,000	3	1,000	1	300
Waterloo.....	D.S.	Oct. 21	3	500	1	1,500	3	250
Waubashene								
No. 2.....	D.S.	Feb. 28	1	1,000	3	1,000		
Welland Junction								
No. 1.....	T.S.	Jul. 28	3	6,000	1	18,000		
Wellesley.....	D.S.	Oct. 28	1	2,000/4,000	3	2,000/4,000	1	600
Wheatley.....	D.S.	Feb. 15	1	1,000/1,800	3	1,000/1,800		
Willowdale.....	D.S.	Feb. 28					1	13,000
Winchester No. 1.....	D.S.	Sep. 5	1	2,000	3	2,000	1	600
Windsor-Crawford.....	T.S.	Jul. 16	1	15,000/27,000	3	15,000/27,000		
Windsor-Malden.....	D.S.	Sep. 14	3	667/1,200	1	2,000/3,600	3	333
Woodstock.....	T.S.	Jul. 19	1	15,000	3	15,000		
Woodstock-Zorra.....	D.S.	Aug. 7	3	333/600	1	1,000/1,800		
Thunder Bay System								
Macdiarmid.....	D.S.	Dec. 20	1	100	1	100		
North Bay No. 2.....	D.S.	Sep. 21	3	333	1	1,000		
Northern Ontario								
Properties								
Atikokan.....	D.S.	May 31	3	333	1	1,000	3	150
Dryden.....	T.S.	Apr. 23	2	8,000	3	16,000		
Kapuskasing.....	T.S.	Dec. 16	1	8,000	3	8,000		
Kirkland Lake.....	T.S.	Dec. 10	1	8,000	3	8,000		
Little Current.....	D.S.	Apr. 1	3	667	1	2,000	3	200
Ramore No. 1.....	D.S.	Apr. 20					6	25
Timmins No. 1.....	D.S.	Jun. 28	3	1,667	1	5,000		

TOTAL TRANSFORMER STEP-DOWN CAPACITY

System and voltage	Fre- quency	Capacity		
		Total at Dec. 31, 1950	Net additions 1951	Total at Dec. 31, 1951
SOUTHERN ONTARIO SYSTEM	cycles	kva	kva	kva
230,000-volt.....	25	900,000		900,000
230,000-volt.....	60	330,000	304,000	634,000
115,000-volt.....	25	1,640,850	88,000	1,728,850
115,000-volt.....	60	457,350	539,200	996,550
44,000-volt.....	60	196,850	36,804	233,654
44,000-volt.....	66 $\frac{2}{3}$	7,750		7,750
33,000-volt.....	60	11,720		11,720
26,400-volt.....	25	268,525	19,600	288,125
26,400-volt.....	60	74,500	61,090	135,590
22,000-volt.....	60	9,150	1,400	10,550
22,000-volt.....	66 $\frac{2}{3}$	6,510		6,510
13,200-volt.....	25	83,075		83,075
13,200-volt.....	60	350		350
Less than 13,200-volt.....	60	9,250	300	9,550
THUNDER BAY SYSTEM				
115,000-volt.....	60	93,750		93,750
44,000-volt.....	60	1,200	1,100	2,300
22,000-volt.....	60	4,000		4,000
NORTHERN ONTARIO PROPERTIES				
132,000/115,000-volt.....	25	202,270		202,270
132,000/115,000-volt.....	60	64,000	32,000	96,000
69,000-volt.....	60	3,750		3,750
44,000-volt.....	25	24,500		24,500
44,000-volt.....	60	29,734	1,950	31,684
26,000-volt.....	25	52,235	4,850	57,085
22,000-volt.....	60	9,650		9,650
12,000-volt.....	25	11,325		11,325
12,000-volt.....	60	11,300		11,300
Less than 12,000-volt.....	25	825		825
Less than 12,000-volt.....	60	12,775		12,775

POWER SYSTEM AUXILIARIES

Changes and Additions Made During the Year Ended
December 31, 1951

SOUTHERN ONTARIO SYSTEM

Telephone

Auxiliary telephone-control cables were installed from Richard L. Hearn Generating Station to Scarborough Generating Station, and from this station to the Toronto Hydro-Electric System's Station E and Toronto-Leaside Transformer Station. Similar cables were installed between J. Clark Keith Generating Station, Windsor-Crawford Transformer Station, and Essex Transformer Station. Smaller telephone-control cables were installed between Sarnia and St. Clair Transformer Stations, Essa and Barrie Transformer Stations, and between Hamilton Beach and Hamilton-Kenilworth Transformer Stations.

One hundred and forty-four circuit miles of telephone line were erected along with eighty circuit miles of rehabilitation line for power-system operation. Administrative and operational channels were superimposed on telephone circuits between Des Joachims Generating Station and Minden Switching Station, Chenaux Generating Station and Chats Falls Transformer Station, and between Burlington and Toronto-Wiltshire Transformer Stations. Telemetry channels were established on existing telephone circuits between Stewartville Generating Station and Chats Falls Transformer Station, between London and Toronto-Strachan Transformer Stations, and between Toronto-Leaside and Oshawa Transformer Stations.

Switching facilities for telephone interconnections were installed at Des Joachims, Chats Falls, Chenaux, Richard L. Hearn, and J. Clark Keith Generating Stations. Similar facilities were installed at the Eastern and Georgian Bay Regional Offices; the E. V. Buchanan, Sarnia, Scarborough, and Toronto-Strachan Transformer Stations; and at Minden Switching Station.

Power-line Carrier

Power-line carrier telemetry was established from Merivale Switching Station to Chats Falls Generating Station, and from Cornwall Transformer Station to Merivale Switching Station. Telemetry and load control channels were established between Des Joachims Generating Station and A. W. Manby Transformer Station.

Single power-line carrier-relay-protection-channels were established between Minden Switching Station and Burlington Transformer Station, Essa and E. V. Buchanan Transformer Stations, Ross L. Dobbin and Scarborough Transformer Stations, Chats Falls Generating Station and Merivale Switching Station, Merivale Switching Station and Cornwall Transformer Station, and between Chats Falls and Pagan Generating Stations. Two power-line carrier-relay-protection-channels were established between Minden Switching Station and Essa Transformer Station.

Radio

To provide emergency service for high-voltage transmission lines in the Southern Ontario System, six frequency-modulation stations were established at Stratford, Barrie, Eugenia, Belleville, Barrett Chute, and Smiths Falls. This brings the total number of fixed stations in the mobile radio network to sixteen. The number of radio-equipped line-maintenance trucks in use throughout the Southern Ontario System was increased from sixty-nine to seventy-five. A new radio station was established at Ellesmere, and the Toronto radio stations formerly located at Scarborough and Fairbank are now located there.

THUNDER BAY SYSTEM

In the Thunder Bay System, a voice circuit was superimposed on the telephone circuit between Ear Falls Generating Station and Dryden Transformer Station. From Dryden Transformer Station to Moose Lake Transformer Station, a power-line carrier-channel for voice was established. Power-line carrier-relay-channels were established between Pine Portage

Generating Station and Alexander Switching Station, and between Pine Portage Generating Station and Fort William Transformer Station. Small telephone switchboards were installed at Moose Lake Transformer Station and Aguasabon Generating Station.

NORTHERN ONTARIO PROPERTIES

Telephone-control cables were installed between the North Bay Area Office and the Northeastern Regional Office, North Bay Municipal Station No. 3 and North Bay Transformer Station, and between North Bay Transformer Station and the Northeastern Regional Office.

Eighty-two circuit miles of telephone line were erected along with forty-five miles of rehabilitation line. Supervisory and operational carrier circuits were established between R. H. Martindale Transformer Station and Crystal Falls Generating Station, Crystal Falls Generating Station and the Northeastern Regional Office, and between this point and the Otto Holden Generating Station.

TOTAL MILEAGE OF TRANSMISSION LINES AND CIRCUITS

System and voltage	Kind of structures	Line route or structure miles			Circuit miles
		Total at Dec. 31, 1950	Net additions 1951	Total at Dec. 31, 1951	Total at Dec. 31, 1951
SOUTHERN ONTARIO SYSTEM					
230,000-volt.....	steel	2,270.05	.....	2,270.05	2,693.40
115,000-volt.....	steel	1,351.49	70.74	1,422.23	2,146.10
115,000-volt.....	wood	640.19	135.97	776.16	780.86
60,000-volt.....	steel	20.00	.....	20.00	21.13
60,000-volt.....	wood	0.25	0.25*	0.00	0.00
44,000-volt and less.....	steel	96.57	4.21	100.78	141.41
44,000-volt and less.....	wood	3,488.32	181.43	3,639.75	4,113.74
THUNDER BAY SYSTEM					
115,000-volt.....	steel	224.06	.....	224.06	371.53
115,000-volt.....	wood	189.17	.....	189.17	189.17
44,000-volt and less.....		167.63	0.02	167.65	205.88
NORTHERN ONTARIO PROPERTIES					
132,000-volt.....	steel	384.33	1.83	386.16	772.32
132,000-volt.....	wood	242.47	20.37	262.84	262.84
115,000-volt.....	steel	74.51	.....	74.54	141.13
115,000-volt.....	wood	377.20	99.48	476.68	476.68
69,000-volt.....	wood	203.72	.....	203.72	203.72
44,000-volt and less.....	wood	1,114.36	36.39	1,150.75	1,233.58
Totals.....		10,844.35	550.19†	11,394.54	13,753.49

* Removals.

† Net increase.

NOTE: Circuit miles of 230,000-volt line in the Province of Quebec connected to H-E.P.C. lines=103.47 miles, making a total system interconnected mileage of 2,796.87.

The figure 3,488.22 representing total route miles of line at 44,000-volt and less on wood pole structures in the Southern Ontario System has been revised since the publication of the 1950 report to exclude 13.05 miles actually completed in 1951. The total mileage has been adjusted accordingly.

APPENDIX V—LEGISLATIVE

AT THE 1951 Session of the Legislative Assembly of the Province of Ontario four Acts respecting The Hydro-Electric Power Commission of Ontario were passed. The said Acts are reproduced here in full. The short titles of the Acts are as follows:

The Niagara Development Act, 1951, Chapter 55

The Niagara Development Agreement Act, 1951, Chapter 56

The Power Commission Amendment Act, 1951, Chapter 67

The Rural Telephone Systems Act, 1951, Chapter 80.

ACTS

CHAPTER 55

An Act to facilitate the Development of Power on the Niagara River

Assented to March 21st, 1951.

Session Prorogued April 5th, 1951.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

1. In this Act,

Interpre-
tation.

- (a) "Commission" means The Hydro-Electric Power Commission of Ontario;
- (b) "land" means real property of whatsoever nature or kind and includes tenements, hereditaments and appurtenances, and any estate, term, easement, right or interest in, to, through, over, under, along upon, across or affecting land;
- (c) "owner" includes mortgagee, lessee, tenant, occupant, any person entitled to a limited estate or interest, and a guardian, committee, executor, administrator or trustee in whom land or any property or interest is vested;

- (d) "power" includes electrical, pneumatic, hydraulic, mechanical, atomic, steam, gas or other power and includes energy;
- (e) "supply" includes delivery, dealing in, and sale;
- (f) "works" includes all property, plant, machinery, buildings, erections, constructions, installations, materials, devices, fittings, apparatus, appliances and equipment for the generation, transformation, transmission, distribution, delivery, sale or use of power.

Power of
Commission,

to divert
waters
and generate
power;

to construct
works;

to connect
with other
works;

to transmit
and deliver
power;

to acquire
from The
Niagara
Parks Com-
mission;

to acquire
lands and
works;

2. The Commission may,

- (a) divert the waters of the Niagara and Welland rivers and tributary waters or any of them and by the use of these waters, or by coal, steam, or oil or by any other means, generate power and use, transform, transmit, convert, distribute, deliver, make available for use, sell and supply it;
- (b) construct, install, maintain and operate works and roads required for or incidental to the diversion of the waters of the Niagara and Welland rivers and tributary waters or any of them and to the generation of power by the use of these waters, or by coal, steam, or oil or by other means and to its use, transformation, transmission, conversion, distribution, delivery, availability for use or supply;
- (c) connect any of the works constructed or installed under clause *b* with any other power works or systems;
- (d) transmit, transform, distribute and deliver power generated under clause *a* to or from or for any person at any place, through, over, under, along, upon or across any land, public highway or public place, stream, water, watercourse, bridge, viaduct or roadway and through, over, under, along, upon or across the land of any person;
- (e) acquire for the purposes of this Act from The Niagara Parks Commission by purchase, lease or otherwise as may be agreed upon, land, water, water privileges, water powers, roads, buildings and works and use, utilize, develop and improve them;
- (f) acquire for the purposes of this Act by purchase, lease or otherwise from persons other than The Niagara Parks Commission, or without the consent of the owner, other than The Niagara Parks Commission, enter upon, take possession of, expropriate and use land, waters, water privileges, water powers, access and other roads, buildings, and works and use, utilize,

develop and improve them, and upon such terms as it deems proper, sell, lease or dispose of such of them as it deems are no longer necessary for its purposes;

- (g) acquire for the purposes of this Act, by purchase, ^{to acquire supplies,} or otherwise, water, coal, steam, oil, material, equipment and other supplies.

3. Notwithstanding* anything in any other Act, where any right, interest, way, privilege, permit or easement is acquired by the Commission in, through, over, under, along, upon, across or affecting any land, unless it is otherwise agreed, the land shall continue subject thereto and it shall be binding upon the owner and all subsequent owners of the land until released by the Commission. ^{Continuance of easements.}

4. For the purposes of clause *d* of section 2, the Commission may exercise the same powers as are set forth in subsection 2 of section 32 of *The Power Commission Act*, and thereupon subsections 3 to 11 of that section shall apply. ^{Exercise of powers of entry. Rev. Stat., c. 281}

5.—(1) In relation to all matters authorized by this Act, except acquisition from The Niagara Parks Commission, the Commission shall have and may exercise and enjoy, in addition to the powers conferred upon it by this and any other Act, all the powers conferred upon the Minister of Public Works in relation to a public work by *The Public Works Act*, and in the application of this section, where the words “the Minister”, “the Department” or “the Crown” appear in that Act, they shall, where the context permits, mean the Commission. ^{Commission to have powers of Minister of Public Works. Rev. Stat., c. 323.}

(2) Upon the deposit in the proper registry or land titles office of a plan and description of the land required by the Commission, signed by the secretary or by an Ontario land surveyor, the land so described shall thereupon become and be vested in the Commission. ^{Mode of perfecting title.}

(3) Except as otherwise provided in this Act, the Commission shall in the exercise of its compulsory powers authorized by this Act, proceed in the manner provided by *The Public Works Act*, where the Minister of Public Works takes land or property for the use of Ontario, and all the provisions of that Act with respect to the fixing, payment and application of compensation shall apply *mutatis mutandis*. ^{Procedure.}

(4) Subsection 6 of section 24 of *The Power Commission Act* shall apply to proceedings under this section. ^{Rev. Stat., c. 281, s. 24, subs. 6, to apply.}

(5) No act or proceeding of the Commission under this section shall be restrained by injunction or other process or proceeding in any court. ^{Action of commission not to be restrained.}

6. The purposes and objects of this Act shall be purposes and objects of the Commission under section 12 of *The Power* ^{General fund.}

Commission Act and any liabilities of the Commission heretofore incurred and any expenditure of funds by the Commission heretofore made therefor are ratified and confirmed.

Additional powers.

Rev. Stat., c. 281.

7. For the purposes of this Act, the Commission may, in addition to exercising any of the powers conferred upon it by this Act, exercise any of the powers conferred upon it by *The Power Commission Act*, but nothing in that Act shall in any way limit or restrict the exercise of the powers conferred upon by the Commission by this Act.

Conveyance from The Niagara Parks Commission.

8. Subject to the approval of the Lieutenant-Governor in Council, The Niagara Parks Commission may execute and deliver to the Commission such conveyances, leases or other documents as may be necessary for the purposes of clause *e* of section 2.

Extent of operation of Act.

9. The exercise of the powers conferred by or under the authority of this Act, or any of them, shall not be deemed to be a making use of the waters of the Niagara River to generate electric or pneumatic power within the meaning of any stipulation or condition contained in any agreement entered into by the commissioners for the Queen Victoria Niagara Falls Park or The Niagara Parks Commission, whether the diverted water is used in or by plants or works heretofore constructed or in or by other plants or works.

Commencement.

10. This Act shall come into force on the day it receives the Royal Assent.

Short title

11. This Act may be cited as *The Niagara Development Act, 1951*.

CHAPTER 56

An Act to approve an Agreement between Canada and Ontario respecting the Development of the Niagara River

Assented to April 5th, 1951.

Session Prorogued April 5th, 1951.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

Can.-Ont. agreement approved.

1. The agreement made the 27th day of March, 1950, between the Government of Canada and the Government of Ontario, set out as the Schedule to this Act, is approved.

2. This Act shall come into force on the day it receives the ^{Commence-}
Royal Assent. ^{ment.}

3. This Act may be cited as *The Niagara Development Agree-* ^{Short title.}
ment Act, 1951.

SCHEDULE

AGREEMENT BETWEEN CANADA AND ONTARIO

AGREEMENT made this 27th day of March, 1950.

BETWEEN:

The Government of Canada, herein represented by
The Right Honourable LOUIS S. ST. LAURENT,

OF THE FIRST PART,

—and—

The Government of Ontario, herein represented by
The Honourable LESLIE M. FROST,

OF THE SECOND PART.

WHEREAS a treaty hereinafter referred to as the Niagara Diversion Treaty has now been signed by the Government of Canada and the Government of the United States of America to supplement the Boundary Waters Treaty of 1909 and amend Article V of that Treaty with respect to the diversion of water from the Niagara River and the division of diverted water between the United States of America and Canada; and

WHEREAS it is desirable that an Agreement be made between Canada and Ontario in respect of the utilization of the flow of the waters of the Niagara River to be in accordance with the Niagara Diversion Treaty:

NOW THEREFORE This Agreement Witnesseth:

ARTICLE I

This Agreement is conditional upon the ratification of the Niagara Diversion Treaty by Canada and the United States of America.

ARTICLE II

Ontario undertakes to construct the Canadian portion of such remedial works in the Niagara River as may be agreed upon by Canada and the United States of America pursuant to Article II of the Niagara Diversion Treaty and to pay the Canadian share of the cost of the remedial works constructed pursuant to that Article. Canada undertakes to consult Ontario before giving approval to such recommendations as the International Joint Commission may make as to the nature and design of such remedial works.

ARTICLE III

Canada, without delay, will authorize and make available to Ontario such diversions of the water specified in Article III of the Niagara Diversion Treaty, for power purposes, as Canada is from time to time enabled to authorize under the terms of said Treaty.

ARTICLE IV

Ontario undertakes to make provision for the disposition of claims and for the satisfaction of any valid claims arising out of the damage or injury to persons or property occurring in Canadian territory in connection with the construction and operation of any of the works authorized or provided for by this Agreement.

ARTICLE V

This Agreement is made subject to its approval by the Parliament of Canada and by the Legislature of the Province of Ontario. If, however, the Niagara Diversion Treaty has not come into force within two years from the date of this Agreement,

either party hereto may, by written notice to the other, forthwith cancel this Agreement.

IN WITNESS WHEREOF the Right Honourable LOUIS S. ST. LAURENT has hereunto set his hand on behalf of Canada and the Honourable LESLIE M. FROST has hereunto set his hand on behalf of Ontario; both upon the twenty-seventh day of March, in the year of Our Lord one thousand nine hundred and fifty.

LOUIS S. ST. LAURENT.

LESLIE M. FROST.

CHAPTER 67

An Act to amend The Power Commission Act

Assented to (except section 1) March 21st, 1951.

Section 1 assented to April 5th, 1951.

Session Prorogued April 5th, 1951.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

Rev. Stat.,
c. 281, s. 7,
subs. 1,
amended.

1.—(1) Subsection 1 of section 7 of *The Power Commission Act* is amended by striking out the word “five” in the second line and inserting in lieu thereof the words “not more than nine”, so that the subsection shall read as follows:

Advisory
Council.

(1) The Ontario Hydro-Electric Advisory Council shall continue, and shall consist of not more than nine members appointed by the Lieutenant-Governor in Council each of whom shall hold office for two years from the date of his appointment or such other period as the Lieutenant-Governor in Council may prescribe and every such member shall be eligible for re-appointment.

Rev. Stat.,
c. 281, s. 7,
subs. 5,
amended.

(2) Subsection 5 of the said section 7 is amended by adding at the end thereof the words “and the cost thereof shall be deemed to be part of the administration expenses of the Commission,” so that the subsection shall read as follows:

Renumeration.

(5) The members of the advisory council shall be paid such per diem allowance and travelling expenses as the Lieutenant-Governor in Council shall from time to time decide and the cost thereof shall be deemed to be part of the administration expenses of the Commission.

Rev. Stat.,
c. 281, s. 18,
cl. a,
amended.

2. Clause *a* of section 18 of *The Power Commission Act* is amended by striking out the words “as provided in section 49”

in the second and third lines, so that the clause shall read as follows:

- (a) towards repayment of advances made by the Province of Ontario to the Commission and towards the retirement of other indebtedness incurred or assumed by the Commission.

3. *The Power Commission Act* is amended by adding thereto the following section: Rev. Stat., c. 281, amended.

- 26a.—(1) The powers of the Commission under clause *b* of section 26 with respect to the electrical equipment, apparatus, appliances, devices and works of any person to whom a municipal corporation or municipal commission supplies electrical power or energy which is supplied to it by the Commission may, with the assent of the Commission, be exercised by the municipal corporation or municipal commission. Frequency standardization by municipalities.
- (2) Where pursuant to subsection 1 the powers are exercised by a municipal corporation or municipal commission in respect of the electrical equipment, apparatus, appliances, devices or works mentioned in clause *d* of section 26, the Commission may bear the expense thereof. Where Commission may bear cost.
- (3) Where pursuant to subsection 1 the powers are exercised by a municipal corporation or municipal commission in respect of electrical equipment, apparatus, appliances, devices or works other than those mentioned in clause *d* of section 26, such portion of the expense as the Commission could have charged to and collected from owners of the electrical equipment, apparatus, appliances, devices or works if the Commission had exercised the powers itself, may, with the assent of the Commission, be charged to and collected from the owners by the municipal corporation or municipal commission and the balance borne by the Commission. Where cost may be apportioned.

4. Section 41 of *The Power Commission Act* is amended by inserting after the word "Act" in the first line the words "or amended by *The Niagara Development Act, 1951*", so that the section shall read as follows: Rev. Stat., c. 281, s. 41, amended.

41. The compulsory powers conferred by this Act or by *The Niagara Development Act, 1951* shall extend to land, works, rights, powers, privileges and property notwithstanding that they are or may be deemed to be devoted to a public use or that the owner thereof possesses the power of taking land compulsorily, and Extent of powers of expropriation. 1951, c. 55.

notwithstanding and regardless of the origin, nature and source of the owner's title thereto, and of the manner whereby it was acquired by the owner or any of his predecessors in title.

Rev. Stat.,
c. 281, s. 46,
amended.

5. Section 46 of *The Power Commission Act* is amended by striking out all the words after the word "Act" in the fourth line and inserting in lieu thereof the words "and of *The Niagara Development Act, 1951*, and the sums so raised may either be advanced to the Commission or applied by the Treasurer of Ontario in the purchase of notes, bonds, debentures or other securities of the Commission issued by the Commission under the authority of this Act", so that the section shall read as follows:

Government
authorized
to raise
funds for
work of
Commis-
sion.
Rev. Stat.,
c. 299.

46. The Lieutenant-Governor in Council may raise by way of loan in the manner provided by *The Provincial Loans Act* such sums as the Lieutenant-Governor in Council may deem requisite for the purposes of this Act and of *The Niagara Development Act, 1951*, and the sums so raised may either be advanced to the Commission or applied by the Treasurer of Ontario in the purchase of notes, bonds, debentures or other securities of the Commission issued by the Commission under the authority of this Act.

1951, c. 55.

Rev. Stat.,
c. 281, s. 49,
subs. 1,
amended.

6. Subsection 1 of section 49 of *The Power Commission Act* is amended by inserting after the word "Commission" in the first line the words "before the 1st day of January, 1951", so that the subsection, exclusive of the schedule, shall read as follows:

Repayment
of advances
made before
1st January,
1951.

(1) The advances received by the Commission before the 1st day of January, 1951, under the authority of sections 46, 47 and 48 shall be repayable as follows:

.

Rev. Stat.,
c. 281, s. 50,
amended.

7. Section 50 of *The Power Commission Act* is amended by inserting after the word "Commission" in the first line the words "in respect of advances received by it before the 1st day of January, 1951", so that the section shall read as follows:

Payment to
Province of
interest and
charges in
respect of
advances
made before
1st January,
1951.

50. The Commission in respect of advances received by it before the 1st day of January, 1951, shall pay annually to the Treasurer of Ontario, as interest on the indebtedness of the Commission to the Province, such sum as may be from time to time determined by the Lieutenant-Governor in Council to be sufficient to reimburse the Province the full amount of interest paid by the Government on moneys raised for the purposes of the Commission and the charges incurred by the Government in providing such money.

8. *The Power Commission Act* is amended by adding thereto the following section: Rev. Stat.,
c. 281,
amended.

50a. All advances made by the Province to the Commission after the 1st day of January, 1951, shall be made on such terms and conditions as may be agreed upon between the Commission and the Treasurer of Ontario, and without limiting the generality of the foregoing, the Commission in consideration of any advance, may, Advances
to be made
on terms and
conditions
agreed upon.

(a) issue and deliver to the Treasurer of Ontario notes, bonds, debentures or other securities of the Commission for the same principal amount, maturing on the same date or dates, bearing interest at the same rate or rates and payable as to both principal and interest in the same currency or currencies as the debentures or other securities of the Province issued for the purpose of raising the moneys advanced by the Province to the Commission, and containing such other terms and conditions, if any, as to redemption in advance of maturity or otherwise as the Treasurer of Ontario may approve; and

(b) agree to reimburse the Province all charges and expenses incurred or to be incurred by the Province in connection with the creation and issue of such debentures or other securities of the Province and the payment from time to time of the interest thereon and of the principal thereof whether at maturity or on redemption prior to maturity and of the amount of the premium, if any, on redemption, and such other charges and expenses as the Province may incur.

9.—(1) Subsection 2 of section 51 of *The Power Commission Act* is amended by adding thereto the following clause: Rev. Stat.,
c. 281, s. 51,
subs. 2,
amended.

(aa) payment in whole or in part of any notes, bonds, debentures or other securities of the Commission issued and delivered to the Treasurer of Ontario in respect of any advances from the Province to the Commission.

(2) Clause *e* of subsection 2 of the said section 51 is amended by inserting after the figures "59" in the fourth line the words "or carrying out any of the powers and purposes of the Commission referred to in *The Niagara Development Act, 1951*", so that the clause shall read as follows: Rev. Stat.,
c. 281, s. 51,
subs. 2,
cl. *e*,
amended.

(e) carrying out any of the powers and purposes of the Commission referred to in sections 24 to 28, 38 and

1951, c. 55.

84 or in respect of the acquisition or construction of works referred to in section 59 or carrying out any of the powers and purposes of the Commission referred to in *The Niagara Development Act, 1951*, providing in whole or in part for expenditures of the Commission made or to be made in connection therewith, reimbursing the Commission for any such expenditures heretofore or hereafter made, and repaying in whole or in part any temporary borrowings of the Commission for any of such purposes.

Rev. Stat.,
c. 281, s. 66,
amended.

10. Section 66 of *The Power Commission Act* is amended by adding thereto the following subsection:

Areas fixed
as of May 1,
1951.

- (12) Notwithstanding anything in this section, no areas shall be established nor the boundaries of any established area enlarged or altered after the 1st day of May, 1951.

Rev. Stat.,
c. 281, s. 107,
re-enacted.

11. Section 107 of *The Power Commission Act* is repealed and the following substituted therefor:

Insurance
by municipi-
palities.

- 107.—(1) Subject to subsections 2, 3 and 7, every municipal corporation and municipal commission supplied with electrical power or energy by the Commission shall maintain insurance against liability for bodily injury and property damage arising from the operation of an electrical utility in such amount and upon such terms as the Commission directs.

Insurance
fund.

- (2) A municipal corporation or municipal commission may, with the approval of the Commission, establish in lieu of such insurance a fund sufficient in the opinion of the Commission to protect the municipal corporation or municipal commission against the liability and thereupon it shall not be necessary for it to comply with subsection 1.

Where in-
surance not
necessary.

Rev. Stat.,
c. 430.

- (3) If a municipal corporation or municipal commission is in schedule 1 of the regulations made under *The Workmen's Compensation Act* and is paying assessments to the Workmen's Compensation Board, it shall not be necessary for it to maintain insurance against liability for bodily injury to its employees.

Group in-
surance for
municipi-
palities,
Rev. Stat.,
c. 183.

- (4) Notwithstanding anything in *The Insurance Act* or in any other Act, the Commission may effect insurance on behalf of municipal corporations or municipal commissions which it supplies with electrical power or energy against liability for bodily injury and property damage arising from the operation of an electrical utility.

- (5) The contract of insurance effected under subsection 4 may, if desired by the Commission, include the Commission as a party insured against liability and may protect more than one municipal corporation or municipal commission. Commission included in group insurance.
- (6) The cost of insurance effected under subsection 4 shall, except in so far as it is for the protection of the Commission, be chargeable to the protected municipal corporations or municipal commissions as part of the cost of power payable by them. How cost chargeable.
- (7) Where a municipal corporation or municipal commission is an insured party under a contract of insurance effected under subsection 4, it shall not be necessary for it to comply with subsection 1. Where insurance under subs. 1 not necessary.

12. Clause *e* of section 111 of *The Power Commission Act* is repealed and the following substituted therefor: Rev. Stat., c. 281, s. 111, cl. e, re-enacted.

- (*e*) in the purchase of debentures or other securities of the Dominion of Canada or of the Province of Ontario, or in securities guaranteed as to principal and interest by either of them. purchase of securities.

13. This Act shall come into force on the day it receives the Royal Assent. Commencement.

14. This Act may be cited as *The Power Commission Amendment Act, 1951*. Short title.

CHAPTER 80

An Act respecting Rural Telephone Systems

Assented to April 5th, 1951.

Session Prorogued April 5th, 1951.

WHEREAS it is in the public interest that the telephone systems serving the inhabitants of the rural parts of Ontario be improved, extended and co-ordinated; and whereas it is deemed expedient to charge the Commission with the duty of promoting these objects in the manner hereinafter provided; Preamble.

Therefore, His Majesty, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

1. In this Act,

- (*a*) "Commission" means The Hydro-Electric Power Commission of Ontario; Interpretation.

Rev. Stat.,
c. 387.

- (b) “company” has the same meaning as in *The Telephone Act*.

Duties and
powers of
Commission.

2.—(1) The Commission shall,

- (a) inquire into and survey the ways and means by which the objects of this Act may be promoted;
- (b) furnish such information and advice as may be helpful in promoting the objects of this Act;
- (c) co-operate with and assist the companies in promoting the objects of this Act and for such purpose may make the services of its engineers, technicians and workmen available to the companies or any of them and may purchase for and sell to the companies or any of them such materials and equipment as may be requested;
- (d) do whatever else is necessary in its opinion to promote the objects of this Act.

Assistance.

(2) The Commission, with the approval of the Lieutenant-Governor in Council, may require the Department of Lands and Forests, the Ontario Northland Transportation Commission or any other department, branch, board, commission or agency of the Crown in right of Ontario to collaborate with and assist it in carrying out its duties under this Act.

Payment to
Commission.

3. The Lieutenant-Governor in Council may authorize the Treasurer of Ontario to pay to the Commission out of the Consolidated Revenue Fund such moneys as the Commission may require in the performance of its duties or in the exercise of its powers under this Act.

The Ontario
Telephone
Account.

4. The Commission shall open an account to be styled “The Ontario Telephone Account” into which shall be paid all moneys paid to the Commission by the Treasurer of Ontario under section 3 and to which shall be charged the costs and expenses of the Commission incurred under this Act, including charges to compensate the Commission for the services of its officers and other employees rendered under this Act and including the portion of the total administrative expenses of the Commission that have been incurred by reason of this Act.

Commission
not to
spend unless
money on
hand.

5. The Commission shall not spend or lend any money or incur any obligation for the purposes of this Act unless it has in hand the money therefor after providing for costs and expenses referred to in section 4.

Rev. Stat.,
c. 281, ss. 11,
12 not to
apply.

6. Sections 11 and 12 of *The Power Commission Act* shall not apply to the receipts and expenditures of the Commission under this Act.

7. On or before the 1st day of November in each year the Commission shall furnish the Lieutenant-Governor in Council with an estimate of the moneys required under section 3 during the next ensuing fiscal year of the Commission and a statement of The Ontario Telephone Account for the next preceding fiscal year of the Commission. Annual estimate and statement.

8. This Act shall come into force on a day to be named by the Lieutenant-Governor by his Proclamation. Commencement.

9. This Act may be cited as *The Rural Telephone Systems Act, 1951*. Short title.

ORDERS IN COUNCIL

The agreements between The Hydro-Electric Power Commission of Ontario and municipalities, persons, and corporations mentioned in the list hereunder given were approved by Orders in Council.

CO-OPERATIVE SYSTEMS

VILLAGES		
Eganville.....	Dec. 5, 1951	
Wasaga Beach.....	Oct. 16, 1951	
TOWNSHIPS		
Ancaster.....	Sept. 11, 1951	
Anderdon.....	Nov. 12, 1951	
Bangor, Wicklow, and McClure.....	July 19, 1951	
Bayham.....	Dec. 19, 1951	
Clarence.....	Aug. 28, 1951	
Colchester North.....	Nov. 12, 1951	
Cornwall.....	May 9, 1951	
Crosby South.....	April 30, 1951	
Ellice.....	April 23, 1951	
Euphrasia.....	Sept. 11, 1951	
Fitzroy.....	Dec. 19, 1951	
Grantham.....	Dec. 19, 1951	
Humberstone.....	Mar. 8, 1951	
Huntley.....	May 28, 1951	
Innisfil.....	Jan. 22, 1951	
Joly.....	Sept. 11, 1951	
Logan.....	Sept. 27, 1951	
Maidstone.....	Dec. 19, 1951	
Mariposa.....	May 28, 1951	
Maryborough.....	July 19, 1951	
Montague.....	Nov. 21, 1951	
Monteagle & Herschel.....	July 19, 1951	
Murray.....	Aug. 28, 1951	
Nelson.....	June 13, 1951	
Nottawasaga.....	April 17, 1951	
Ops.....	Nov. 12, 1951	
Otonabee.....	Nov. 9, 1951	
Pakenham.....	Aug. 28, 1951	
Pickering.....	Aug. 28, 1951	
Plantagenet North.....	Feb. 20, 1951	
Puslinch.....	Dec. 19, 1951	
Ramsay.....	Mar. 8, 1951	
Ridout.....	Sept. 11, 1951	
Thorold.....	Oct. 30, 1951	
Thorold.....	Oct. 31, 1951	
Tossorontio.....	Jan. 9, 1951	
Williamsburg.....	May 14, 1951	
Winchester.....	May 14, 1951	
Wollaston.....	Jan. 29, 1951	

CORPORATIONS

Aluminum Company of Canada, Limited.....	Nov. 23, 1951
Atlas Steels Limited.....	Aug. 2, 1951
Bata Shoe Company of Canada Limited.....	Jan. 29, 1951
Bata Shoe Company of Canada Limited.....	Feb. 6, 1951
Canada Starch Company Limited.....	Dec. 5, 1951
Canada Talc Industries Limited.....	Jan. 8, 1952
Canadian Carborundum Company, Limited.....	Sept. 11, 1951
Canadian Gypsum Company Limited.....	Jan. 29, 1951
Canadian Oil Refineries Limited.....	April 23, 1951
Deloro Smelting & Refining Company, Limited.....	June 8, 1951
Dominion Magnesium Limited.....	July 20, 1951
Dow Chemical of Canada, Limited.....	Nov. 21, 1951

Electro Metallurgical Company of Canada, Limited	Jan. 29, 1951
Gair Company Canada, Limited (Campbellford)	Jan. 22, 1951
Gair Company Canada, Limited (Frankford)	Jan. 22, 1951
Gair Company Canada, Limited (Campbellford)	Oct. 30, 1951
Gair Company Canada, Limited (Frankford)	Oct. 30, 1951
Hayes Steel Products, Limited	Feb. 13, 1951
His Majesty the King in right of Canada, herein represented by the Minister of National Defence for the Dominion of Canada	June 27, 1951
His Majesty the King in right of Canada, herein represented by the Minister of National Defence for the Dominion of Canada	Sept. 21, 1951
His Majesty the King in right of Canada, herein represented by the Minister of National Defence for the Dominion of Canada	Oct. 3, 1951
Kennedy, The William & Sons, Limited	Sept. 26, 1951
Light Alloys Limited	Aug. 28, 1951
Lionite Abrasives Limited	Mar. 13, 1951
McKinnon Industries, Limited	May 28, 1951
North American Cyanamid Limited	Aug. 2, 1951
Norton Company	Sept. 27, 1951
Ontario Paper Company Limited	July 5, 1951
Roe, A. V., Canada Limited	Mar. 28, 1951
Roe, A. V., Canada Limited	Oct. 11, 1951
St. Mary's Cement Company, Limited	Mar. 9, 1951
Sheaffer, W. A., Pen Company of Canada Limited	Sept. 26, 1951
Somerville Limited	Feb. 14, 1951
Steel Company of Canada, Limited	Aug. 9, 1951
Strathcona Paper Company, Limited	Nov. 13, 1951
Suzorite Company Limited	Mar. 1, 1951
Theresa Gold Mines Limited	Sept. 18, 1951

NORTHERN ONTARIO PROPERTIES

TOWNS			
Hearst	Jan. 9, 1952	Morson	Mar. 28, 1951
Sturgeon Falls	Jan. 29, 1951	Nipissing	Mar. 8, 1951
		Ratter and Dunnet	April 23, 1951
		West Ferris	Aug. 7, 1951
TOWNSHIPS		IMPROVEMENT DISTRICT	
Armstrong	Sept. 11, 1951	Mountjoy	Jan. 29, 1951
Calvert	Mar. 19, 1951		

CORPORATIONS

Aquarius Porcupine Gold Mines Limited	Aug. 28, 1951
Armistice Gold Mines Limited	Aug. 2, 1951
Bidgood Kirkland Gold Mines Limited	June 27, 1951
Campbell Red Lake Mines Limited	April 23, 1951
Cathroy Larder Mines Limited	June 27, 1951
Central Patricia Gold Mines Limited	April 23, 1951
Cobalt Lode Silver Mines Limited (Mill No. 104)	Oct. 3, 1950
Cobalt Lode Silver Mines Limited (Peterson Lake Properties)	Oct. 3, 1950
Cobalt Lode Silver Mines Limited (Mill No. 104)	Oct. 30, 1951
Cobalt Lode Silver Mines Limited (Peterson Lake Properties)	Oct. 30, 1951
Cobalt Lode Silver Mines Limited (Brady Lake Mine)	Nov. 12, 1951
East Rim Nickel Mines Limited	April 17, 1951
Golden Arrow Mines Limited	July 19, 1951
Goldhawk Porcupine Mines Limited	July 19, 1951
Hellens Mining and Reduction Company Limited	Dec. 5, 1951
Huronian Company Limited and The International Nickel Company of Canada Limited	Sept. 11, 1951
KVP Company Limited	April 23, 1951
Mattawa Electric Light and Power Company Limited	Oct. 30, 1951
New Jason Mines Limited	April 23, 1951
Newlund Mines Limited	Feb. 14, 1951
New Morrison Mines Limited	June 8, 1951
Silver-Miller Mines Limited	April 30, 1951

LIST OF ABBREVIATIONS

A.T.S.	—Autotransformer Station	kwh	—kilowatt-hour(s)
d-c	—direct current	min	—minimum
D.S.	—Distributing Station	N.O.P.	—Northern Ontario Properties
F.C. & T.S.	—Frequency-Changer and Transformer Station	ph	—phase
G.S.	—Generating Station	psig	—pounds per square inch gauge
H-E.P.C.	—The Hydro-Electric Power Commission of Ontario	rpm	—revolutions per minute
H-E.S.	—Hydro-Electric System	S.O.S.	—Southern Ontario System
hp	—horsepower	Stn	—Station
Imp. Dist.	—Improvement District	T.B.S.	—Thunder Bay System
Jct.	—Junction	T.S.	—Transformer Station
kv	—kilovolt(s)	Twp.	—Township
kva	—kilovolt-ampere(s)	v	—volt
		V.A.	—Voted Area

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 B = Statement "B"—Operating Reports of Municipal Electrical Utilities
 C = Statement "C"—Cost of Power to Municipalities and Rates to Customers for Domestic, Commercial light, and Power service
 D = Statement "D"—Customers, Revenue and Consumption within Municipal Electrical Utilities
 L = Statement of Loads of Municipal Systems
 CP = Statement of Cost of Power to Municipalities
 SF = Statement of Sinking Fund Payments to Municipalities

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